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MAPS
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MINERAL LAND CLASSIFICATION OF THE TEMESCAL VALLEY AREA, RIVERSIDE COUNTY, CALIFORNIA

1991

MAPS

SPECIAL REPORT 165



**CALIFORNIA
DEPARTMENT
OF CONSERVATION**

Division of Mines and Geology

MINES AND PROSPECTS
NORTHERN AREA

MAP NO.	NAME	COMMODITY	APPENDIX NO.	MAP NO.	NAME	COMMODITY	APPENDIX NO.
1.	Triangle Rock Products, Inc.	Conc Agg	113	59.	Big Chief (Freeman-Honoh, Ware Deposit, White Gypsum Group)	Gyp	206
2.	Agua Loca Pit	Dia Stn	238	60.	Unknown Name Coal Prospect	Coal	47
3.	Unknown Name Quarry	Last	219	61.	Hogador Canyon Gypsum Deposit	Gyp	209
4.	Bartholomew (Mira Loma)	Riprap, Conc Agg	111, 251	62.	Jackson and Havens Middlesworth Clay Deposit (Brown Star Claims)	SS	226
5.	Springfield Quarry (Jolly Brothers and McMillan, Shenahan)	Au	167	63.	Corena Clay	Kaol Clay	24
6.	Unknown Name Prospects	Au	168	64.	Main Street Gypsum Deposit	Gyp	210
7.	Unknown Name Prospects	Base Agg	76	65.	Capitol Domes	Gyp	207
8.	Jensen Quarry North	Last	220	66.	Corona Lead-Zinc Mine	Pb, Zn	213
9.	Jensen Quarry South (Snow-Rock Quarry)	Riprap, Conc Agg	93, 243	67.	Eagle Canyon Clay	Kaol Clay	12
10.	Subtop Rock Quarry	Conc Agg, Last	100, 218	68.	Capitol Domes	Gyp	208
11.	Atkinson Quarry (Grand Quarry)	Conc Agg	110	69.	Unknown Name Prospects	Au	173
12.	Service Rock	Base Agg	89	70.	Unknown Name Prospects	Au	174
13.	Unknown Name Gravel Pit	Base Agg	48	71.	Jensen Quarry	Riprap	246
14.	Oil Rock Products, Paved Pit	Conc Agg	107	72.	Corona Rock Co.	Conc Agg	99
15.	Borrow Pit	Base Agg	49	73.	All American Asphalt and Aggregate Company (Tenebecal Canyon Rock Quarry)	Conc Agg	92
16.	Riverside County Gravel Pits	Base Agg	80	74.	CalMat, Corona Quarry (Tenebecal Canyon Rock Quarry)	Conc Agg	96
17.	W. Hole Quarries	Dia Stn	233	75.	Unknown Name Prospects	Au	173
18.	Borrow Pit	Base Agg	50	76.	Unknown Name Prospects	Au	174
19.	Mile Ranch Quarries	Dia Stn	232	77.	Unknown Name Prospects	Au	175
20.	Tenat Mixed Concrete Company, Corona Pit	Conc Agg	112	78.	Unknown Name Prospects	Au	176
21.	Opalin Granite Pit	Base Agg	75	79.	Unknown Name Prospects	Au	177
22.	Santa Grande Quarry	Dia Stn	236	80.	Unknown Name Prospects	Au	178
23.	Borrow Pit	Base Agg	51	81.	Unknown Name Prospects	Au	179
24.	Borrow Pit	Base Agg	52	82.	Unknown Name Prospects	Au	180
25.	Stone & Alexander Quarry	Feld	123	83.	Unknown Name Prospects	Au	181
26.	Abidoux Hill Quarry?	Dia Stn	235	84.	Unknown Name Prospects	Au	182
27.	Old City Quarry	Base Agg	78	85.	Unknown Name Prospects	Au	183
28.	Riverside County Gravel Pits	Base Agg	81	86.	Unknown Name Prospects	Au	184
29.	Riverside Sand Company	Base Agg	87	87.	Unknown Name Prospects	Au	185
30.	Borrow Pit(s)	Base Agg	53	88.	Unknown Name Prospects	Au	186
31.	Borrow Pit	Base Agg	54	89.	Unknown Name Prospects	Au	187
32.	Unknown Name Quarry	Dia Stn	239	90.	Unknown Name Prospects	Au	188
33.	Riverside County Gravel Pits	Base Agg	82	91.	Unknown Name Prospects	Au	189
34.	Casa Blanca Quarries	Riprap	244	92.	Unknown Name Prospects	Au	190
35.	Borrow Pit	Base Agg	55	93.	Unknown Name Prospects	Au	191
36.	Borrow Pit	Base Agg	56	94.	Unknown Name Prospects	Au	192
37.	Borrow Pit	Base Agg	57	95.	Unknown Name Prospects	Au	193
38.	Borrow Pit	Base Agg	58	96.	Unknown Name Prospects	Au	194
39.	Delano Clay/Shale Deposit	Coam Clay	11	97.	Unknown Name Prospects	Au	195
40.	Comdit Clay Placer	Coam Clay	6	98.	Unknown Name Prospects	Au	196
41.	Mountain Group (Crownell Mine, Erenreich Gold Mines)	Coam Clay	214	99.	Unknown Name Prospects	Au	197
42.	Thomas Clay Deposit	Coam Clay	38	100.	Unknown Name Prospects	Au	198
43.	Findley Feldspar Placer	Kaol Clay	14	101.	Unknown Name Prospects	Au	199
44.	Witter Clay Deposit	Kaol Clay	36	102.	Unknown Name Prospects	Au	200
45.	Sky Ranch Clay Mine, West Pit	Coam Clay	32	103.	Unknown Name Prospects	Au	201
46.	Sky Ranch Clay Mine, East Pit	Coam Clay	32	104.	Unknown Name Prospects	Au	202
47.	Fire Clay Group	Coam Clay	15	105.	Unknown Name Prospects	Au	203
48.	Sisal Placer (McVicar Pit)	Kaol Clay	15	106.	Unknown Name Prospects	Au	204
49.	McClintock Clay Pit	Kaol Clay	22	107.	Unknown Name Prospects	Au	205
50.	Crescent Clay Mine	Coam Clay	16	108.	Unknown Name Prospects	Au	206
51.	Unknown Name Prospects	Kaol Clay	39	109.	Unknown Name Prospects	Au	207
52.	Unknown Name Prospects	Au? Sn?	169	110.	Unknown Name Prospects	Au	208
53.	Unknown Name Prospects	Kaol Clay	20	111.	Unknown Name Prospects	Au	209
54.	Unknown Name Prospects	Kaol Clay	23, 46	112.	Unknown Name Prospects	Au	210
55.	Unknown Name Prospects	Au? Sn?	170	113.	Unknown Name Prospects	Au	211
56.	Unknown Name Prospects	Au?	171	114.	Unknown Name Prospects	Au	212
57.	Unknown Name Prospects	Au?	172	115.	Unknown Name Prospects	Au	213
58.	White Gypsum Group (Freeman-Honoh, Big Chief, Mira Deposit)	Gyp	211	116.	Unknown Name Prospects	Au	214

15°
MAGNETIC NORTH AND DECLINATION

PLATE 1A

LOCATION MAP

- Cox, B.F. and Morton, D.M., 1978. Preliminary map of surficial materials in northwestern Riverside and southwestern San Bernardino counties, California: U.S. Geological Survey Open-File Report 78-977, scale 1:48,000.
- Durham, D.L. and Yerkes, R.F., 1964. Geology and mineral resources of the eastern Puente Hills area, southern California: U.S. Geological Survey Professional Paper 420-B, Plate 1, scale 1:24,000.
- Eaton, S.L., 1989. Geology of the Bachelor Mountain quadrangle, California: California State University, Long Beach M.S. thesis, Plate 1, scale 1:24,000.
- Engel, Rene, 1959. Geology and Mineral Deposits of the Lake Elsinore quadrangle, California: California Division of Mines Bulletin 146, Plate 1, scale 1:62,500.
- Gray, C.H. Jr., 1961. Geology of the Corona South quadrangle and the Santa Ana Narrows area, Riverside, Orange, and San Bernardino counties, California: California Division of Mines Bulletin 178, Plate 1, scale 1:24,000.
- Gray, C.H. Jr., 1964. Geologic map of the Corona North 7.5' quadrangle: California Division of Mines and Geology unpublished map, scale 1:24,000.
- Irwin, W.P., Greene, R.C., and Thurber, H.K., 1970. Mineral resources of the Agua Tibia Primitive Area, California: U.S. Geological Survey Bulletin 1319-A, Plate 1, scale 1:48,000.
- Kennedy, M.P., 1977. Recency and character of faulting along the Elsinore fault zone in southern Riverside County, California: California Division of Mines and Geology Special Report 131.

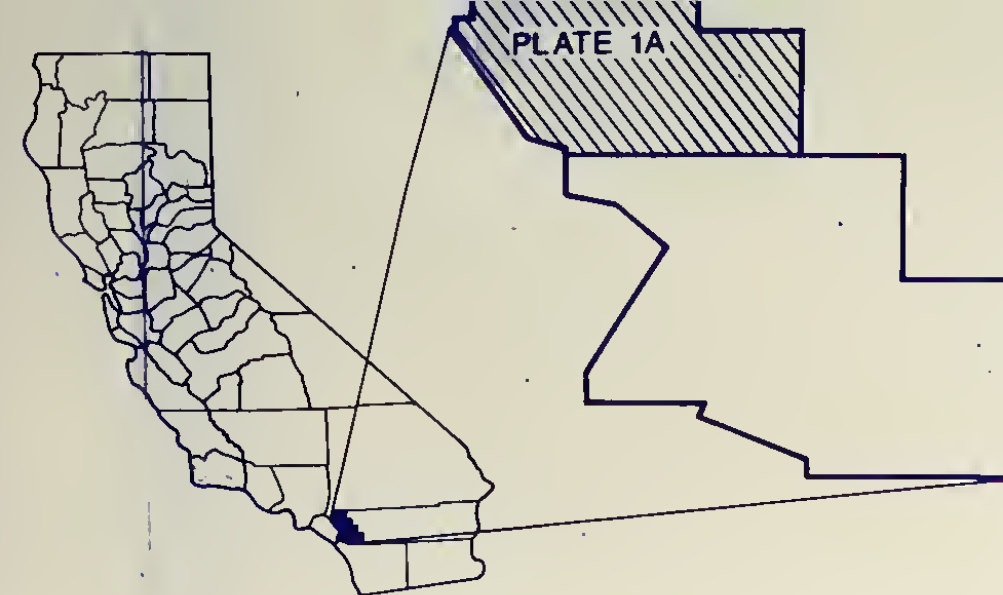
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Geologic contact. Solid lines are used for all geologic contacts regardless whether or not the contacts are depicted as solid lines or as dashed lines on the geologic maps from which Plates 1A and 1B were compiled; contacts are queried where their locations are uncertain.

Fault, showing the dip of the fault. A solid line generally indicates that the fault is confirmed; a dashed line indicates that the fault is inferred or poorly exposed; a dotted line indicates that the fault is concealed beneath unfaulted geologic units; faults are queried where their existence or location are uncertain.

Thrust fault or reverse fault, showing the dip of the fault. Saw teeth are on upper plate. A solid line generally indicates that the fault is confirmed; a dashed line indicates that the fault is inferred or poorly exposed; a dotted line indicates that the fault is concealed beneath untaulted geologic units; faults are queried where their existence or location are uncertain.

Horizontal bedding in unconsolidated sediments, sedimentary rocks, volcanic flows and tuffs, and low-grade metasedimentary and



GEOLOGIC MAP OF THE NORTHERN TEMESCAL VA RIVERSIDE COUNTY, CALIFORNIA

Robert L. Hill, Dinah O. Shumway, and Russell V. M
from data provided by Richard B. Greenwood of the Regional Geologic Mappi
of the Department of Conservation, Division of Mines and Geology



SYMBOLS

Geologic contact. Solid lines are used for all geologic contacts regardless whether or not the contacts are depicted as solid lines or as dashed lines on the geologic maps from which Plates 1A and 1B were compiled; contacts are queried where their locations are uncertain.

Fault, showing the dip of the fault. A solid line generally indicates that the fault is confirmed; a dashed line indicates that the fault is inferred or poorly exposed; a dotted line indicates that the fault is concealed beneath unfaulted geologic units; faults are queried where their existence or location are uncertain.

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Horizontal bedding in unconsolidated sediments, sedimentary rocks, volcanic flows and tuffs, and low-grade metasedimentary and metavolcanic rocks.

Strike and dip of bedding in unconsolidated sediments, sedimentary rocks, volcanic flows and tuffs, and low-grade metasedimentary and metavolcanic rocks. A dashed symbol indicates an approximate strike and dip.

Strike and dip of foliation and/or layering in plutonic rocks.

Strike and dip of vertical foliation and/or layering in plutonic rocks.

Strike and dip of foliation and/or compositional layering in metasedimentary and metavolcanic rocks; foliation may or may not be parallel to original bedding in these rocks.

Strike and dip of vertical foliation and/or layering in metasedimentary and metavolcanic rocks; foliation may or may not be parallel to original bedding in these rocks.

Dike(s) of gabbroic (gb), granitic (gr), or quartz latite (ql) composition; arrow indicates dip.

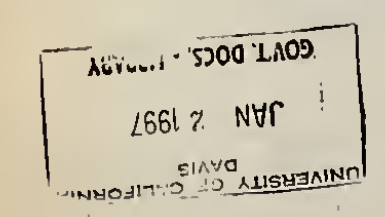
NOTE: The geologic compilation (Plates 1A and 1B) was made for the purpose of a mineral resource investigation and is not suitable for application to investigations of geologic hazards involving slope stability, ground stability, surface fault rupture, or other types of geologic hazards. Such investigations should rely on appropriate published reports or on original investigations conducted at appropriate levels of detail and scale.

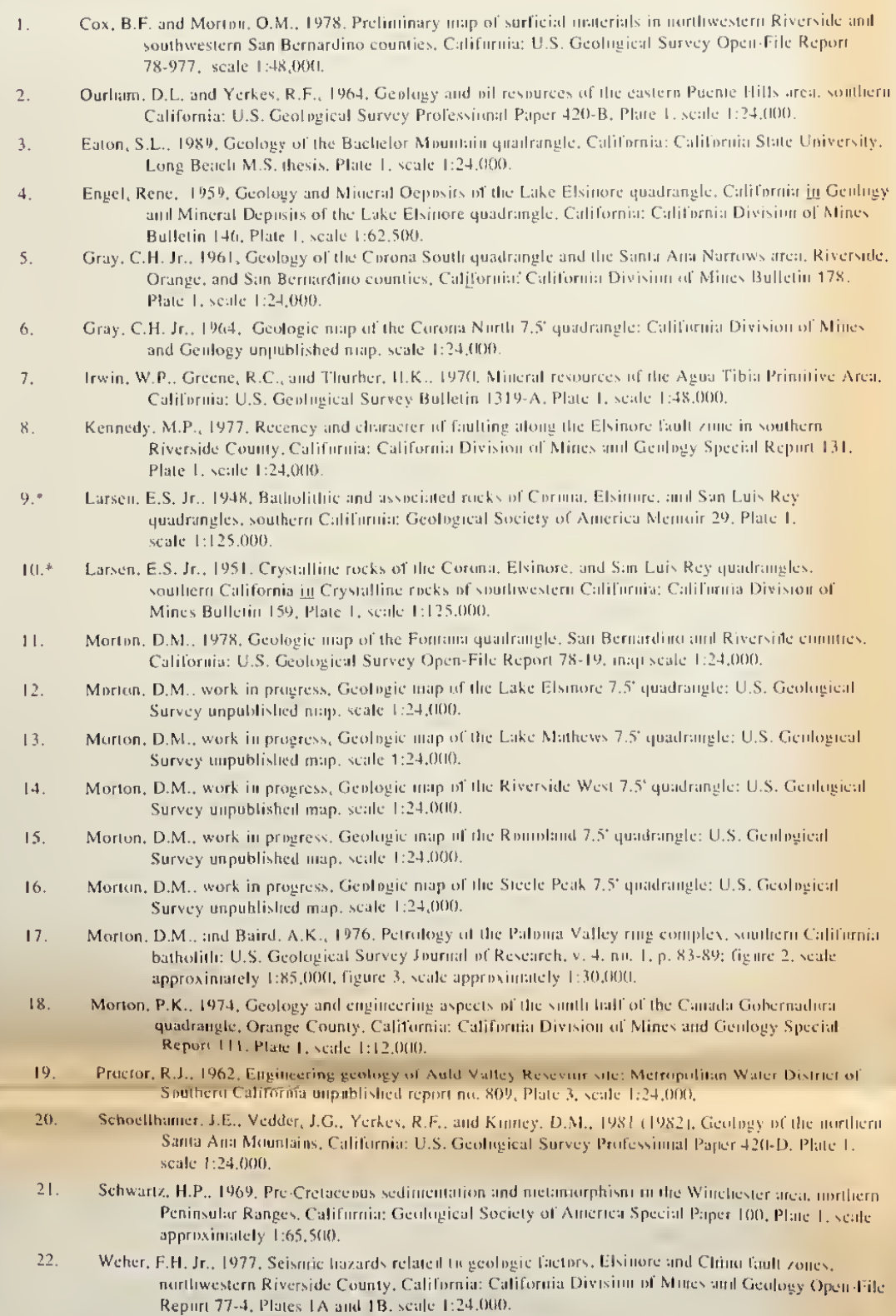
THE NORTHERN TEMESCAL VALLEY AREA, DE COUNTY, CALIFORNIA

compiled by
 nah O. Shumway, and Russell V. Miller
 B. Greenwood of the Regional Geologic Mapping Program
 of Conservation, Division of Mines and Geology

1991

GRAPHICS AND DRAFTING BY CAROL ALLEN, BRUCE FOGGY, LOUISE HUCKABY, FRANCES RUBISH, JOY SULLIVAN, PEGGY WALKER, AND JIM WILLIAMS.





(* denotes sources which cover all or nearly all of the study area)
(Note: Additional data in the Santa Ana Mountains from C. Herzog, 1990, mapping in progress.)

- Survey unpublished map, scale 1:24,000.
13. Morton, D.M., work in progress, Geologic map of the Lake Mathews 7.5' quadrangle: U.S. Geological Survey unpublished map, scale 1:24,000.
14. Morton, D.M., work in progress, Geologic map of the Riverside West 7.5' quadrangle: U.S. Geological Survey unpublished map, scale 1:24,000.
15. Morton, D.M., work in progress, Geologic map of the Rimland 7.5' quadrangle: U.S. Geological Survey unpublished map, scale 1:24,000.
16. Morton, D.M., work in progress, Geologic map of the Steele Peak 7.5' quadrangle: U.S. Geological Survey unpublished map, scale 1:24,000.
17. Morton, D.M., and Baird, A.K., 1976, Petrology of the Paloma Valley ring complex, southern California batholith: U.S. Geological Survey Journal of Research, v. 4, no. 1, p. 83-89; figure 2, scale approximately 1:85,000; figure 3, scale approximately 1:30,000.
18. Morton, P.K., 1974, Geology and engineering aspects of the south half of the Canada Gobernadora quadrangle, Orange County, California: California Division of Mines and Geology Special Report 111, Plate 1, scale 1:12,000.
19. Proctor, R.J., 1962, Engineering geology of Attd Valley Reservoir site: Metropolitan Water District of Southern California unpublished report no. 809, Plate 3, scale 1:24,000.
20. Schoellhamer, J.E., Vedder, J.G., Yerkes, R.F., and Kinney, D.M., 1981 (1982), Geology of the northern Santa Ana Mountains, California: U.S. Geological Survey Professional Paper 420-D, Plate 1, scale 1:24,000.
21. Schwartz, H.P., 1969, Pre-Cretaceous sedimentation and metamorphism in the Winchester area, northern Peninsular Ranges, California: Geological Society of America Special Paper 100, Plate 1, scale approximately 1:65,500.
22. Weber, F.H., Jr., 1977, Seismic hazards related to geologic factors, Elsinore and China fault zones, northwestern Riverside County, California: California Division of Mines and Geology Open-File Report 77-4, Plates 1A and 1B, scale 1:24,000.

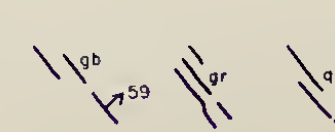
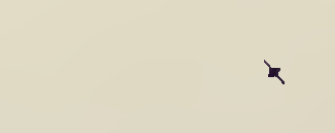
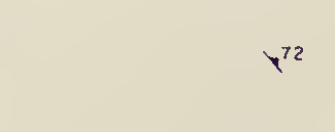
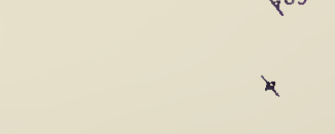
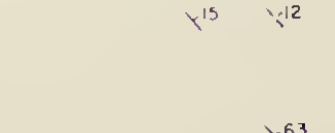
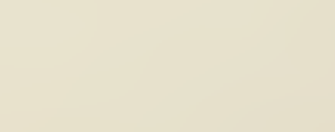
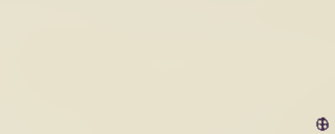
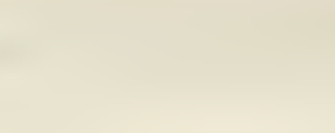
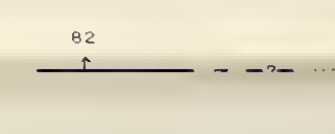
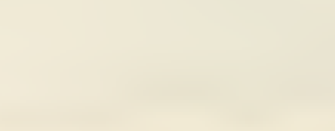
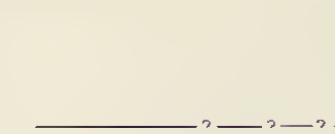
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INDEX TO GEOLOGIC MAPPING USED TO COMPILE THE GEOLOGIC MAP, PLATES 1A AND 1B

EXPLANATION

Geologic Period	Age	Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description
CENOZOIC	Quaternary	Oyo	YOUNGER ALLUVIUM Unconsolidated sand, gravel, and silt associated with intermittent river, stream, and alluvial fan deposits, in Elsinore Trough. Petro: Block area, surface direction and soil development are negligible.	Os	ELSIÑO SAND Unconsolidated fine to medium grained sand deposited in sand.	Ol	LAKE MATHIEWS Unconsolidated fine to medium grained sand and gravel, slightly to moderately well-sorted, with poorly developed agglutination.	Ol	LAKESIDE DEPOSITS Unconsolidated fine to medium grained sand and gravel, slightly to moderately well-sorted, with poorly developed agglutination.
		Oyo	YOUNGER ALLUVIUM Unconsolidated sand, gravel, and silt associated with intermittent river, stream, and alluvial fan deposits, in Elsinore Trough. Petro: Block area, surface direction and soil development are negligible.	Os	ELSIÑO SAND Unconsolidated fine to medium grained sand deposited in sand.	Ol	LAKE MATHIEWS Unconsolidated fine to medium grained sand and gravel, slightly to moderately well-sorted, with poorly developed agglutination.	Ol	LAKESIDE DEPOSITS Unconsolidated fine to medium grained sand and gravel, slightly to moderately well-sorted, with poorly developed agglutination.
	Pleistocene	Oyo	YOUNGER ALLUVIUM Unconsolidated sand, gravel, and silt associated with intermittent river, stream, and alluvial fan deposits, in Elsinore Trough. Petro: Block area, surface direction and soil development are negligible.	Os	ELSIÑO SAND Unconsolidated fine to medium grained sand deposited in sand.	Ol	LAKE MATHIEWS Unconsolidated fine to medium grained sand and gravel, slightly to moderately well-sorted, with poorly developed agglutination.	Ol	LAKESIDE DEPOSITS Unconsolidated fine to medium grained sand and gravel, slightly to moderately well-sorted, with poorly developed agglutination.
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	Pliocene	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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	Tertiary	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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MESOZOIC	Cretaceous	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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	Permian	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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	Carboniferous	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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PALEOZOIC	Devonian	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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	Silurian	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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	Ordovician	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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	Silurian	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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	Devonian	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).	Tol	UNFOLDED CHANNEL DEPOSITS Conglomerate, sandstone, and siltstone, with some clay, locally, and some lignite (Weber, 1977).
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SYMBOLS



Geologic contact. Solid lines are used for all geologic contacts regardless whether or not the contacts are depicted as solid lines or as dashed lines on the geologic maps from which Plates 1A and 1B were compiled; contacts are queried where their locations are uncertain.

Fault, showing the dip of the fault. A solid line generally indicates that the fault is confirmed; a dashed line indicates that the fault is inferred or poorly exposed; a dotted line indicates that the fault is concealed beneath unfaulted geologic units; faults are queried where their existence or location are uncertain.

Thrust fault or reverse fault, showing the dip of the fault. Saw teeth are on upper plate. A solid line generally indicates that the fault is confirmed; a dashed line indicates that the fault is inferred or poorly exposed; a dotted line indicates that the fault is concealed beneath unfaulted geologic units; faults are queried where their existence or location are uncertain.

Horizontal bedding in unconsolidated sediments, sedimentary rocks, volcanic flows and tuffs, and low-grade metasedimentary and metavolcanic rocks.

Strike and dip of bedding in unconsolidated sediments, sedimentary rocks, volcanic flows and tuffs, and low-grade metasedimentary and metavolcanic rocks. A dashed symbol indicates an approximate strike and dip.

Strike and dip of foliation and/or layering in plutonic rocks.

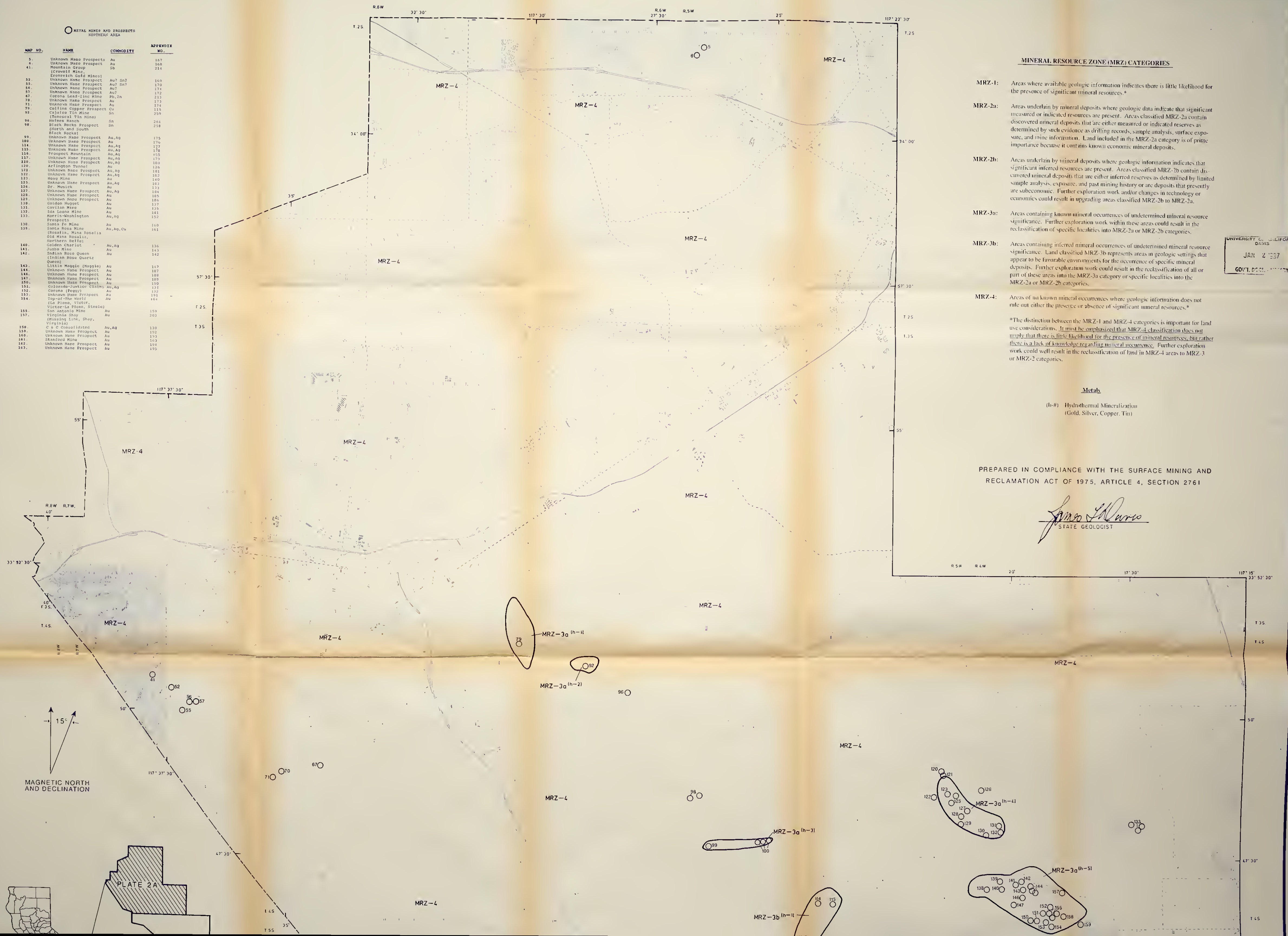
Strike and dip of vertical foliation and/or layering in plutonic rocks.

Strike and dip of foliation and/or compositional layering in metasedimentary and metavolcanic rocks; foliation may or may not be parallel to original bedding in these rocks.

Strike and dip of vertical foliation and/or layering in metasedimentary and metavolcanic rocks; foliation may or may not be parallel to original bedding in these rocks.

Strike and dip of vertical foliation and/or layering in metasedimentary and metavolcanic rocks; foliation may or may not be parallel to original bedding in these rocks.

NOTE: The geologic compilation (Plates 1A and 1B) was a purpose of a mineral resource investigation and is not suitable for application to investigations of geologic hazards involving ground stability, surface fault rupture, or other types of geologic hazards. Such investigations should rely on appropriate published or original investigations conducted at appropriate levels of detail.



155.	Victoria Mine, Steele	Au	159
157.	San Antonio Mine	Au	203
	Virginia Shays	Au	
	(Missing Link, Shays,		
	Virginia)		
158.	C & C Consolidated	Au, Ag	130
159.	Unknown Mine Prospect	Au	192
160.	Unknown Mine Prospect	Au	193
161.	Stanford Mine	Au	193
162.	Unknown Mine Prospect	Au	194
163.	Unknown Mine Prospect	Au	195

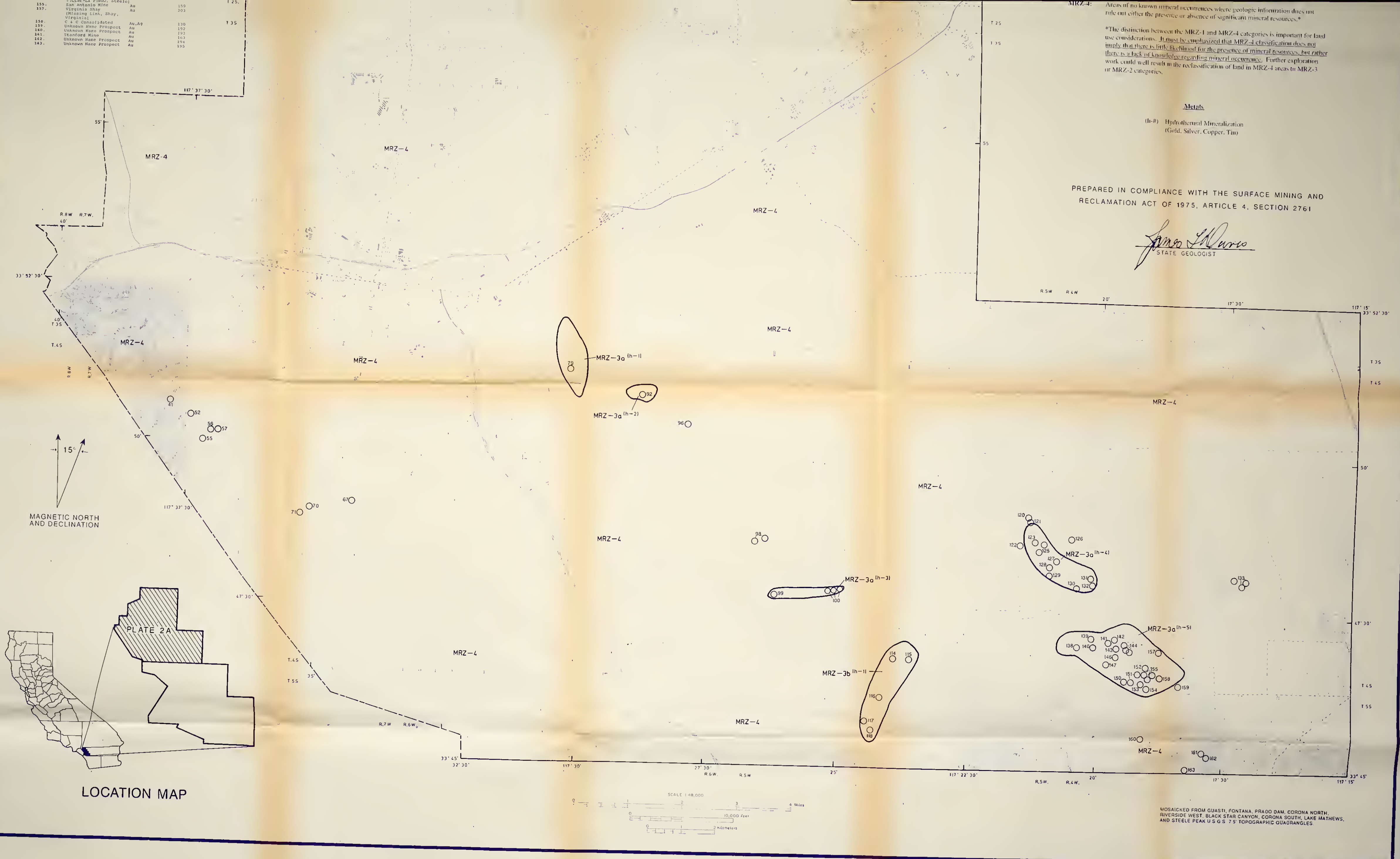
*The distinction between the MRZ-1 and MRZ-4 categories is important for land use considerations. It must be emphasized that MRZ-4 classification does not imply that there is little likelihood for the presence of mineral resources, but rather there is a lack of knowledge regarding mineral occurrence. Further exploration work could well result in the reclassification of land in MRZ-4 areas to MRZ-3 or MRZ-2 categories.

Metals

(h-h) Hydrothermal Mineralization
(Gold, Silver, Copper, Tin)

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James L. Davis
STATE GEOLOGIST



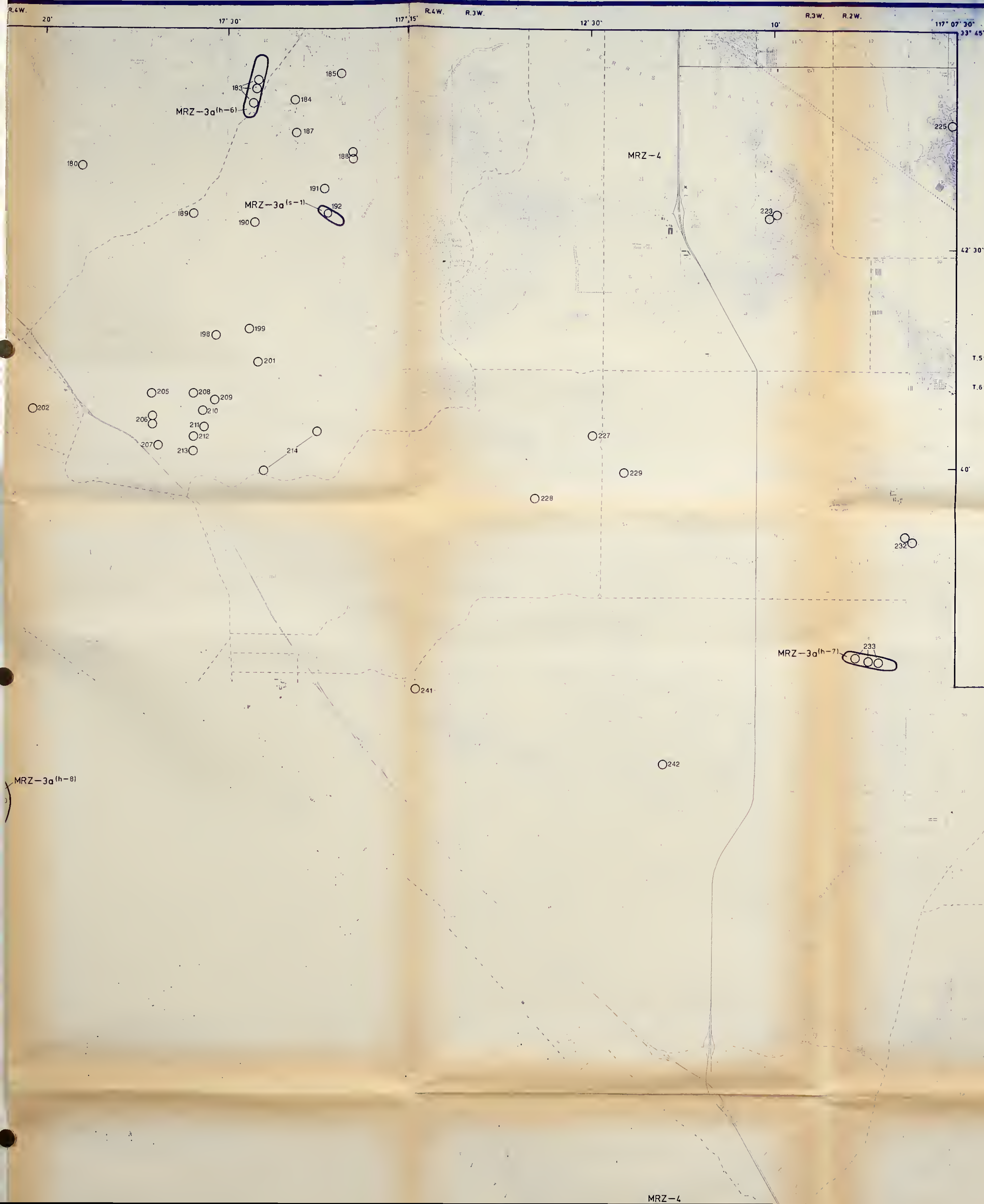
MOSAICKED FROM GUASTI, FONTANA, PRAO DAM, CORONA NORTH,
RIVERSIDE WEST, BLACK STAR CANYON, CORONA SOUTH, LAKE MATHEWS,
AND STEELE PEAK U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLES.

GRAPHICS AND DRAFTING BY CAROL ALLEN, BRUCE FOGGY, LOUISE HUCKABY,
FRANCES RUBISH, JOY SULLIVAN, PEGGY WALKER, AND JIM WILLIAMS

MINERAL LAND CLASSIFICATION MAP OF THE NORTHERN TEMESCAL VALLEY AREA RIVERSIDE COUNTY, CALIFORNIA (AREAS CLASSIFIED FOR DEPOSITS FORMED BY HYDROTHERMAL PROCESSES)

by
Dinah O. Shumway
1991





MINERAL RESOURCE ZONE (MRZ) CATEGORIES

- MRZ-1: Areas where available geologic information indicates there is little likelihood for the presence of significant mineral resources.*
- MRZ-2a: Areas underlain by mineral deposits where geologic data indicate that significant measured or indicated resources are present. Areas classified MRZ-2a contain discovered mineral deposits that are either measured or indicated reserves as determined by such evidence as drilling records, sample analysis, surface exposure, and mine information. Land included in the MRZ-2a category is of prime importance because it contains known economic mineral deposits.
- MRZ-2b: Areas underlain by mineral deposits where geologic information indicates that significant inferred resources are present. Areas classified MRZ-2b contain discovered mineral deposits that are either inferred reserves as determined by limited sample analysis, exposure, and past mining history or are deposits that presently are subeconomic. Further exploration work and/or changes in technology or economics could result in upgrading areas classified MRZ-2b to MRZ-2a.
- MRZ-3a: Areas containing known mineral occurrences of undetermined mineral resource significance. Further exploration work within these areas could result in the reclassification of specific localities into MRZ-2a or MRZ-2b categories.
- MRZ-3b: Areas containing inferred mineral occurrences of undetermined mineral resource significance. Land classified MRZ-3b represents areas in geologic settings that appear to be favorable environments for the occurrence of specific mineral deposits. Further exploration work could result in the reclassification of all or part of these areas into the MRZ-3a category or specific localities into the MRZ-2a or MRZ-2b categories.
- MRZ-4: Areas of no known mineral occurrences where geologic information does not rule out either the presence or absence of significant mineral resources.*

*The distinction between the MRZ-1 and MRZ-4 categories is important for land use considerations. It must be emphasized that MRZ-4 classification does not imply that there is little likelihood for the presence of mineral resources, but rather there is a lack of knowledge regarding mineral occurrences. Further exploration work could well result in the reclassification of land in MRZ-4 areas to MRZ-3 or MRZ-2 categories.

Metals*

- (h-#) Hydrothermal Mineralization
(Gold, Silver, Copper, Tin)
- (s-#) Sedimentary Mineralization
(Manganese)

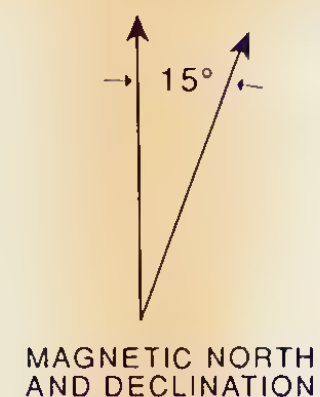
WILDERNESS AREAS HAVE NOT BEEN CLASSIFIED

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James H. Harris
STATE GEOLOGIST

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176.	Purple Hope Mine (Bob Cat No. 1)	Au	156
177.	Red Bird No. 1	Au	157
180.	Galton Group (Mineral Chief)	Au	138
183.	Good Hope (Goodhope, Gold Prince, San Jacinto)	Au	139
184.	Owens	Au	154
185.	Unknown Name Prospect	Au	197
187.	Unknown Name Placers	Au	166
188.	Musick	Au	153
189.	Lucky Strike (Ophir)	Au, Ag	149
190.	Unknown Name Prospect	Sn	262
191.	Unknown Name Prospect	Au	198
192.	Beal-McClellan (Black Eagle and Newport, Brun and Newport, East Group, Elsinore, East Group and West Group)	Mn, Ag	221
198.	Unknown Name Prospect	Mn?	222
199.	Unknown Name Prospect	Mn	223
201.	Wrench Prospect	Au	204
202.	Shining Star	As, Au	1
205.	Lake View Prospect	Au	144
206.	Unknown Name Prospects	Au?, Sn?	199
207.	Unknown Name Prospect	Sn?, Au?	263
208.	Brady Prospect	Au	129
209.	Chief of the Hills	Sn	260
210.	Unknown Name Prospect	Au	200
211.	Unknown Name Prospect	Au?	201
212.	Palisades Group	Pb, Ag, Cu, Au	216
213.	Argonaut Group	Au	125
214.	Binkley's and Tyler's Diggings	Au	127
217.	Lee Prospects	Au	145
223.	Romoland Group	Au	158
225.	Twin Buttes No. 1	Au	165
227.	Menifee Mine	Au, Ag	151
228.	Mammoth Group	Au	150
229.	Lucky Boy (Walker)	Au	148
232.	Leon	Au, Ag	146
233.	Alice	Au	124
234.	Yvonne (Lucas Canyon Claims)	Au	205
235.	Blue Goose	Au, Ag	128
236.	Beehive	Cu, Au	114
237.	Silver Shine	Cu	117
238.	Mammoth	Fe	212
240.	Elsinore Peak	Au	134
241.	Electric Copper and Gold	Cu, Au, Ag	116
242.	Unknown Name Prospect	Au	202



MINERAL LAND CLASSIFICATION MAP OF THE SOUTHERN TEMESCAL VALLEY AREA RIVERSIDE COUNTY, CALIFORNIA

(AREAS CLASSIFIED FOR DEPOSITS FORMED
BY HYDROTHERMAL AND SEDIMENTARY PROCESSES)

by
Robert L. Hill

1991

MRZ-4

T.6S.
T.7S.

35'

32' 30"

T.7S.
T.8S.

32' 30"

27' 30"

T.8S.

117° 00'

MRZ-4

MRZ-4

MRZ-4

AGUA TIBIA

WILDERNESS

MOSAICKED FROM SANTIAGO PEAK, ALBERHILL, LAKE ELSINORE, ROMOLAND, CANADA
GOBERNADORA, SITTON PEAK, WILDOMAR, MURRIETA, BACHELOR MTN, FALLBROOK,
TEMECULA, AND PECHANGA U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLES.

GRAPHICS AND DRAFTING BY CAROL ALLEN, BRUCE FOGGY, LOUISE HUCKABY,
FRANCES RUBISH, JOY SULLIVAN, PEGGY WALKER, AND JIM WILLIAMS.

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Industrial Minerals

- CC(I)-1 Clay - common
CK(I)-1 Clay - kaolinite
LI(I)-1 Limestone
SX(I)-1 Specialty Stone - roofing granules
SR(I)-1 Specialty Stone - riprap
SS(I)-1 Specialty Sand

PREPARED IN COMPLIANCE WITH THE SURFACE MINING AND
RECLAMATION ACT OF 1975, ARTICLE 4, SECTION 2761

James F. Davis
STATE GEOLOGIST



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PLATE 3A

Russell V. Miller
STATE GEOLOGIST



MINERAL LAND CLASSIFICATION MAP OF THE NORTHERN TEMESCAL VALLEY AREA RIVERSIDE COUNTY, CALIFORNIA

(AREAS CLASSIFIED FOR INDUSTRIAL MINERALS)

by
Russell V. Miller and Dinah O. Shumway

1991

GRAPHICS AND DRAFTING BY CAROL ALLEN, BRUCE FOGGY, LOUISE HUCKABY, FRANCES RUBISH, JOY SULLIVAN, PEGGY WALKER, AND JIM WILLIAMS.



LOCATION MAP

○ INDUSTRIAL MINERAL MINES AND PROSPECTS
SOUTHERN AREA

MAP NO.	NAME	COMMODITY	APPENDIX NO.
166.	Oak Park Clay Prospect	Kaol Clay	27
167.	Pacific Clay Products Inc., De Guerre Mines	Kaol Clay	29
169.	Alberhill Coal and Clay Company	Kaol Clay, Coal	2, 43
170.	De Guerre Mines	Kaol Clay	10
173.	Unknown Name Clay Prospect	Kaol Clay	41
174.	Alberhill Shale/Clay Mine	Comm Clay	3
175.	Unknown Name Granite Quarry	Dim Stn	240
179.	Hoist Pit	Kaol Clay	18
181.	Unknown Name Granite Quarry	Dim Stn	241
182.	Unknown Name Granite Quarry	Dim Stn	242
186.	Unknown Name Slate Quarry	Slt	254
193.	Unknown Name Slate Quarry	Slt	255
194.	Unknown Name Slate Quarry(?)	Slt	256
195.	Morton Clay Deposit (Elsinore Clay Co.)	Kaol Clay	25
196.	Evans Shafts	Kaol Clay	13
197.	Best Ranch	Lst	217
200.	Wrench Slate Prospect(?)	Slt	257
220.	Hettleton	Si	121
230.	Bundy-Murrieta Deposit	Feld	119
231.	Perris Mining Co. Deposit (Blom Mine)	Feld	122
239.	Sievert Clay Prospect	Kaol Clay	31
243.	California Land and Mineral Co. (American Encaustic Tiling Co.)	Feld, Si	120
244.	Wildomar Kaolin Deposit	Kaol Clay	42
250.	Skinner Dam Quarries	Riprap	250
253.	Temecula Quarries	Dim Stn	237

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Plate 6

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PLATE 6



MINERAL RESOURCE ZONE (MRZ) CATEGORIES

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Industrial Minerals

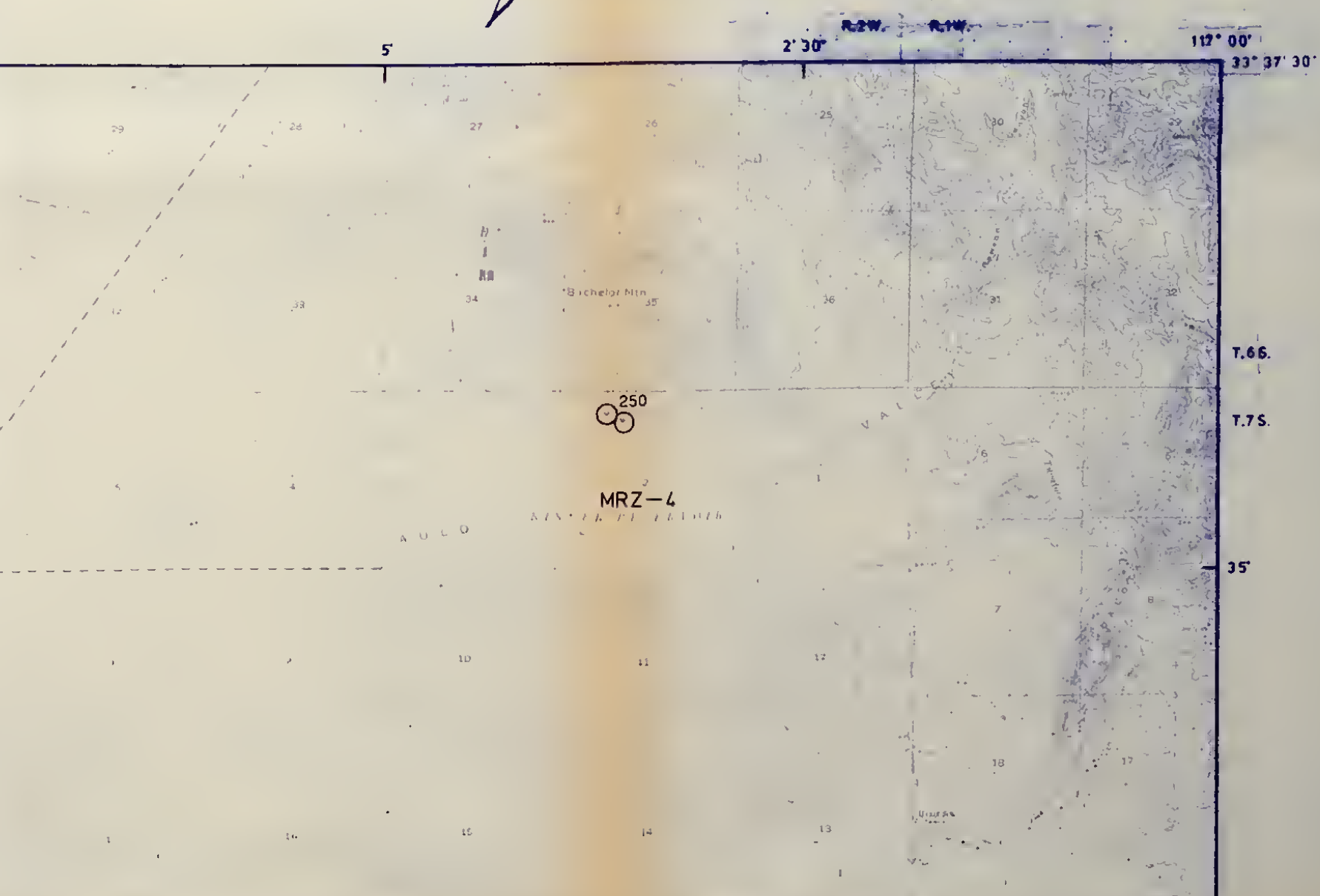
- CC(i-#) Clay - common
- CK(i-#) Clay - kaolinite
- L(i-#) Limestone
- SX(i-#) Specialty Stone - roofing granules
- SR(i-#) Specialty Stone - riprap
- SS(i-#) Specialty Sand

WILDERNESS AREAS HAVE NOT BEEN CLASSIFIED

PREPARED IN COMPLIANCE WITH THE SURFACE MINING AND
RECLAMATION ACT OF 1975, ARTICLE 4, SECTION 2761

James L. Davis
STATE GEOLOGIST

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**MINERAL LAND CLASSIFICATION MAP
OF THE SOUTHERN TEMESCAL VALLEY AREA
RIVERSIDE COUNTY, CALIFORNIA**

(AREAS CLASSIFIED FOR INDUSTRIAL MINERALS)

This map displays mineral land classification for industrial minerals in the Southern Temescal Valley Area, Riverside County, California. The map includes several key features:

- Legend:** A table in the upper left corner lists various mineral resources and their associated values or quantities.
- Map Area:** The map shows the San Mateo Canyon Wilderness area, bounded by T.6S., T.7S., T.8S. and R.6W., R.5W., R.4W. The map is divided into sections labeled MRZ-4, MRZ-3a CK(i-3), MRZ-3b CK(i-2), and MRZ-3c CK(i-2).
- Scale:** The scale bar indicates distances in miles (0 to 4) and kilometers (0 to 2). The scale is 1 inch = 48,000 feet.
- Orientation:** The map is oriented with North at the top, indicated by a north arrow pointing towards the upper right.
- Geographic Labels:** Key locations include SAN MATEO CANYON, WILDERNESS, and TEMESCAL VALLEY.

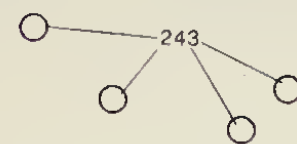
Resource	Value/Quantity
Kaol Clay, Coal	2,43
Kaol Clay	10
Kaol Clay	41
Comm Clay	3
Dim Stn	240
Kaol Clay	18
Dim Stn	241
Dim Stn	242
Slt	254
Slt	255
Slt	256
Kaol Clay	25
Kaol Clay	13
Lmst	217
ospect(?) Slt	257
Si	121
Feld	119
Feld	122
Kaol Clay	31
Feld, Si	120
Kaol Clay	42
Riprap	250
Dim Stn	237

(AREAS CLASSIFIED FOR INDUSTRIAL MINERALS)

Russell V. Miller and Robert L. Hill

MRZ-3a CK(i-3)

MRZ-4



244

250

MRZ-4

CK(i-2)

MRZ-3b CK(i-2)

MRZ-3b CK(i-2)

MRZ-4

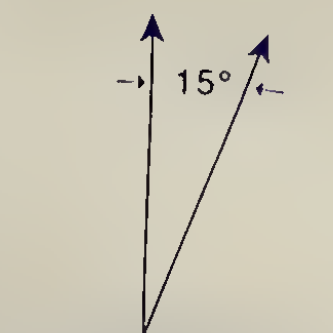
MRZ-3b CK(i-2)

MRZ-4

MRZ-4

AGUA TIBIA

WILDERNESS



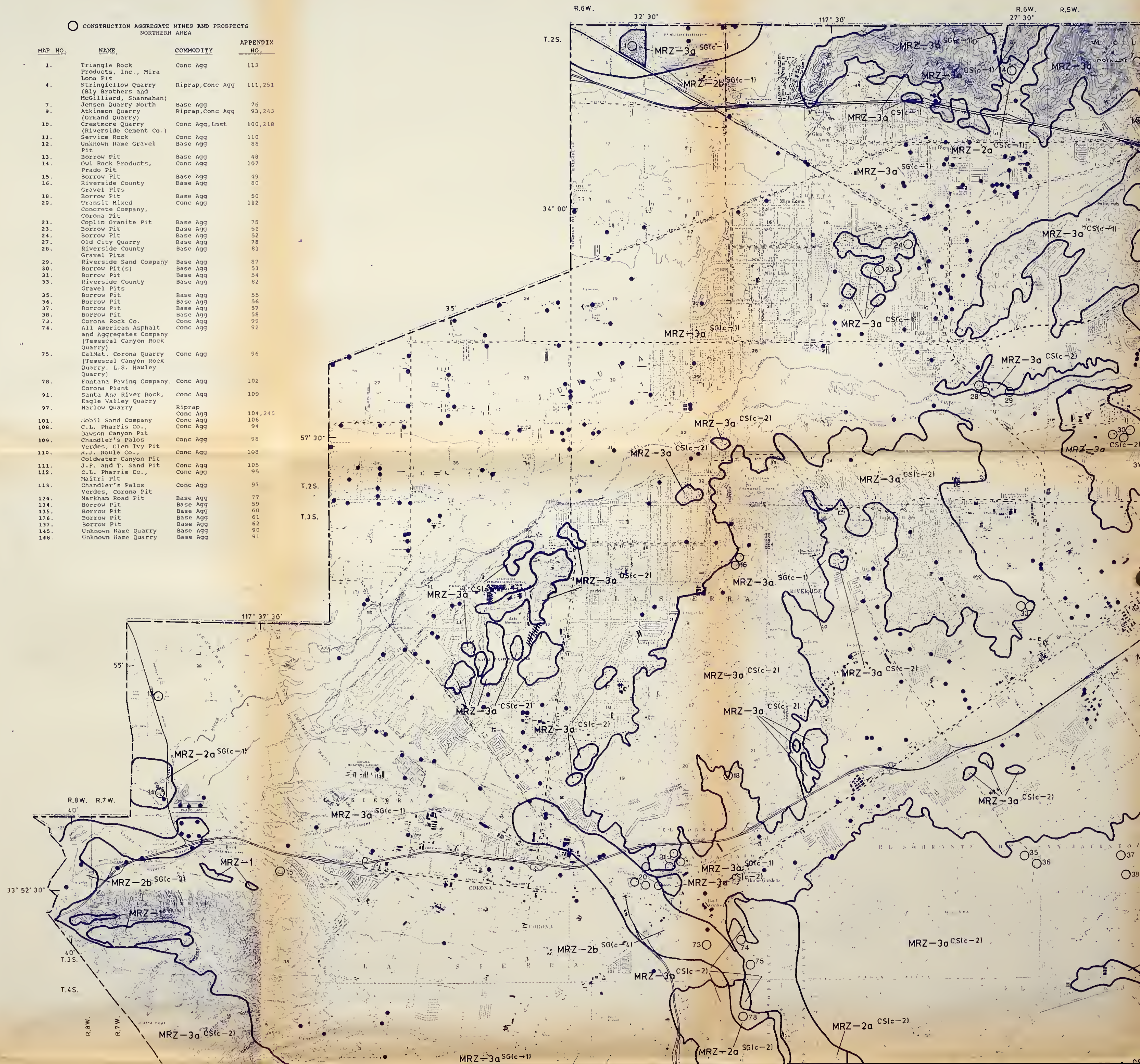
MAGNETIC NORTH
AND DECLINATION

MOSAICKED FROM SANTIAGO PEAK, ALBERHILL, LAKE ELSINORE, ROMOLAND, CANADA
GOBERNADORA, SITTON PEAK, WILDOMAR, MURRIETA, BACHELOR MTN, FALLBROOK,
TEMECULA, AND PECHANGA U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLES.

GRAPHICS AND DRAFTING BY CAROL ALLEN, BRUCE FOGGY, LOUISE HUCKABY,
FRANCES RUBISH, JOY SULLIVAN, PEGGY WALKER, AND JIM WILLIAMS.

○ CONSTRUCTION AGGREGATE MINES AND PROSPECTS
NORTHERN AREA

MAP NO.	NAME	COMMODITY	APPENDIX NO.
1.	Triangle Rock Products, Inc., Mira Loma Pit	Conc Agg	113
4.	Stringfellow Quarry (Bly Brothers and McGilliard, Shannahan)	Riprap, Conc Agg	111, 251
7.	Jensen Quarry North	Base Agg	76
9.	Atkinson Quarry (Ormand Quarry)	Riprap, Conc Agg	93, 243
10.	Crestmore Quarry (Riverside Cement Co.)	Conc Agg, Last	100, 218
11.	Service Rock	Conc Agg	110
12.	Unknown Name Gravel Pit	Base Agg	88
13.	Borrow Pit	Base Agg	48
14.	Owl Rock Products, Prado Pit	Conc Agg	107
15.	Borrow Pit	Base Agg	49
16.	Riverside County Gravel Pits	Base Agg	80
18.	Borrow Pit	Base Agg	50
20.	Transit Mixed Concrete Company, Corona Pit	Conc Agg	112
21.	Coplin Granite Pit	Base Agg	75
23.	Borrow Pit	Base Agg	51
24.	Borrow Pit	Base Agg	52
27.	Old City Quarry	Base Agg	78
28.	Riverside County Gravel Pits	Base Agg	81
29.	Riverside Sand Company	Base Agg	87
30.	Borrow Pit(s)	Base Agg	53
31.	Borrow Pit	Base Agg	54
33.	Riverside County Gravel Pit	Base Agg	82
35.	Borrow Pit	Base Agg	55
36.	Borrow Pit	Base Agg	56
37.	Borrow Pit	Base Agg	57
38.	Borrow Pit	Base Agg	58
73.	Corona Rock Co.	Conc Agg	99
74.	All American Asphalt and Aggregates Company (Temescal Canyon Rock Quarry)	Conc Agg	92
75.	CalMat, Corona Quarry (Temescal Canyon Rock Quarry, L.S. Hawley Quarry)	Conc Agg	96
78.	Fontana Paving Company, Corona Plant	Conc Agg	102
91.	Santa Ana River Rock, Eagle Valley Quarry	Conc Agg	109
97.	Harlow Quarry	Riprap, Conc Agg	104, 245
101.	Mobil Sand Company	Conc Agg	106
108.	C.L. Pharris Co.	Conc Agg	94
109.	Dawson Canyon Pit	Conc Agg	98
110.	Chandler's Palos Verdes, Glen Ivy Pit	Conc Agg	108
111.	R.J. Noble Co., Coldwater Canyon Pit	Conc Agg	105
112.	J.F. and T. Sand Pit	Conc Agg	95
113.	C.L. Pharris Co., Maitri Pit	Conc Agg	97
113.	Chandler's Palos Verdes, Corona Pit	Conc Agg	97
124.	Markham Road Pit	Base Agg	77
134.	Borrow Pit	Base Agg	59
135.	Borrow Pit	Base Agg	60
136.	Borrow Pit	Base Agg	61
137.	Borrow Pit	Base Agg	62
145.	Unknown Name Quarry	Base Agg	90
148.	Unknown Name Quarry	Base Agg	91





MINERAL RESOURCE ZONE (MRZ) CATEGORIES

- MRZ-1: Areas where available geologic information indicates there is little likelihood for the presence of significant mineral resources.*
- MRZ-2a: Areas underlain by mineral deposits where geologic data indicate that significant measured or indicated resources are present. Areas classified MRZ-2a contain discovered mineral deposits that are either measured or indicated reserves as determined by such evidence as drilling records, sample analysis, surface exposure, and mine information. Land included in the MRZ-2a category is of prime importance because it contains known economic mineral deposits.
- MRZ-2b: Areas underlain by mineral deposits where geologic information indicates that significant inferred resources are present. Areas classified MRZ-2b contain discovered mineral deposits that are either inferred reserves as determined by limited sample analysis, exposure, and past mining history or are deposits that presently are subeconomic. Further exploration work and/or changes in technology or economics could result in upgrading areas classified MRZ-2b to MRZ-2a.
- MRZ-3a: Areas containing known mineral occurrences of undetermined mineral resource significance. Further exploration work within these areas could result in the reclassification of specific localities into MRZ-2a or MRZ-2b categories.
- MRZ-3b: Areas containing inferred mineral occurrences of undetermined mineral resource significance. Land classified MRZ-3b represents areas in geologic settings that appear to be favorable environments for the occurrence of specific mineral deposits. Further exploration work could result in the reclassification of all or part of these areas into the MRZ-3a category or specific localities into the MRZ-2a or MRZ-2b categories.
- MRZ-4: Areas of no known mineral occurrences where geologic information does not rule out either the presence or absence of significant mineral resources.*

*The distinction between the MRZ-1 and MRZ-4 categories is important for land use considerations. It must be emphasized that MRZ-4 classification does not imply that there is little likelihood for the presence of mineral resources, but rather there is a lack of knowledge regarding mineral occurrence. Further exploration work could well result in the reclassification of land in MRZ-4 areas to MRZ-3 or MRZ-2 categories.

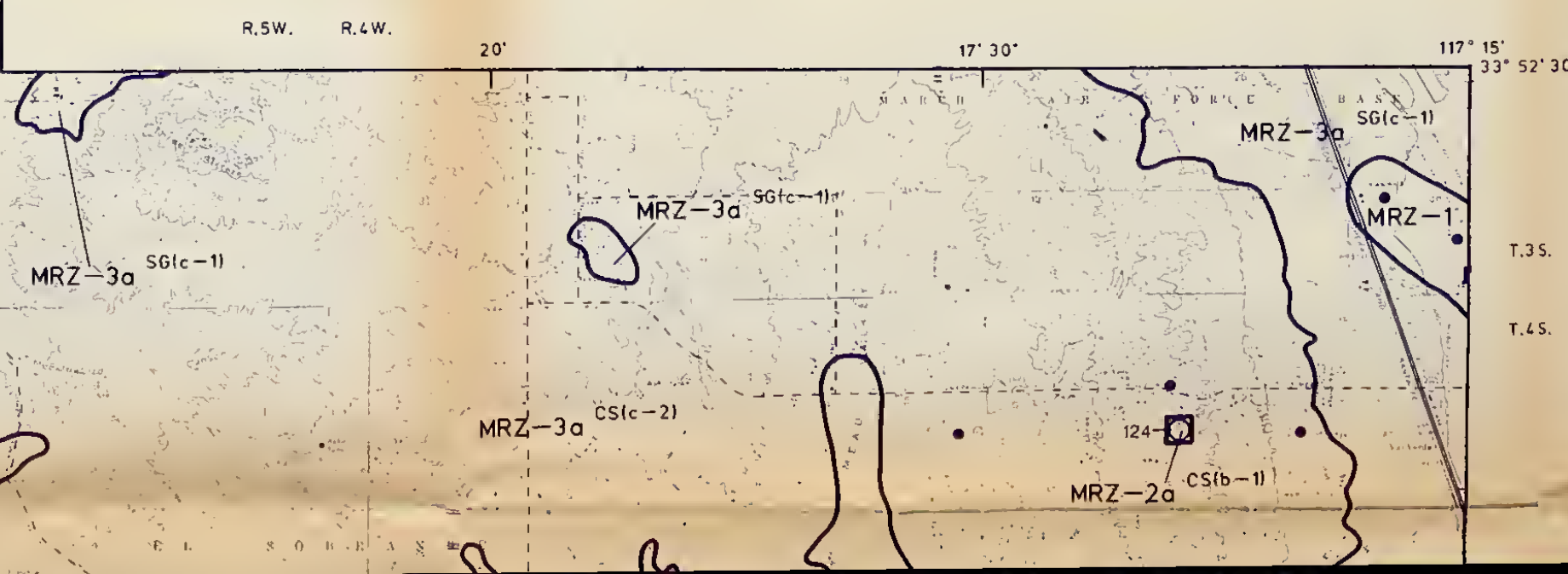
Construction Aggregate

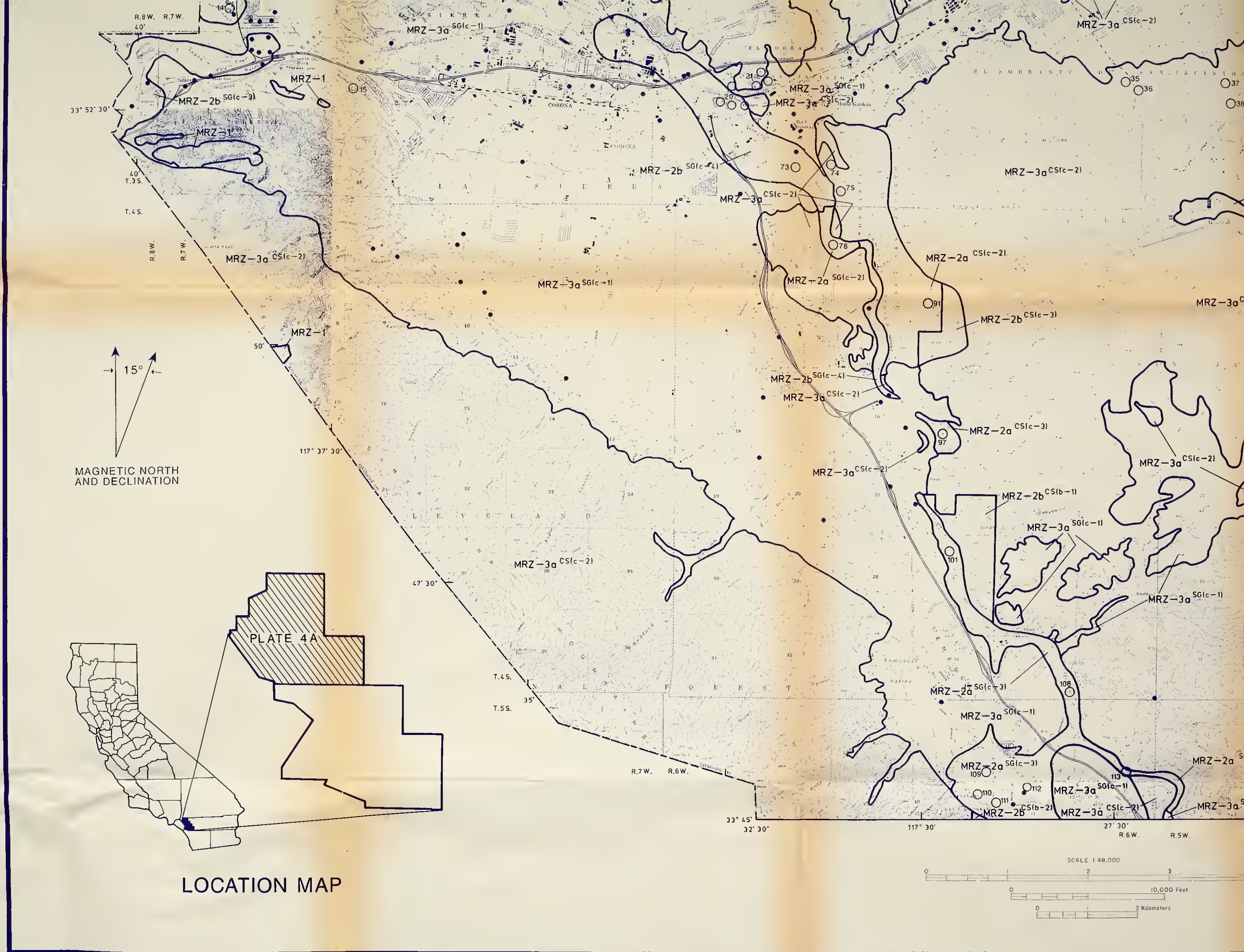
- CS(b)-# Crushed Stone - base aggregate (includes the uses base and subbase)
- CS(c)-# Crushed Stone - concrete aggregate (includes the uses asphaltic concrete aggregate and Portland cement concrete aggregate)
- SG(c)-# Sand and Gravel - concrete aggregate (includes the uses asphaltic concrete aggregate and Portland cement concrete aggregate)

• DRILL HOLE

PREPARED IN COMPLIANCE WITH THE SURFACE MINING AND
RECLAMATION ACT OF 1975, ARTICLE 4, SECTION 2761

James M. Durso
STATE GEOLOGIST





MINERAL LAND CLASSIFICATION MAP OF THE NORTH RIVERSIDE COUNTY, CALIF

(AREAS CLASSIFIED FOR AGGREGATE

by
Russell V. Miller

1991



TN24
C3
A33
No. 165
Plate 8

MINERAL RESOURCE ZONE (MRZ) CATEGORIES

- MRZ-1: Areas where available geologic information indicates there is little likelihood for the presence of significant mineral resources.*
- MRZ-2a: Areas underlain by mineral deposits where geologic data indicate that significant measured or indicated resources are present. Areas classified MRZ-2a contain discovered mineral deposits that are either measured or indicated reserves as determined by such evidence as drilling records, sample analysis, surface exposure, and mine information. Land included in the MRZ-2a category is of prime importance because it contains known economic mineral deposits.
- MRZ-2b: Areas underlain by mineral deposits where geologic information indicates that significant inferred resources are present. Areas classified MRZ-2b contain discovered mineral deposits that are either inferred reserves as determined by limited sample analysis, exposure, and past mining history or are deposits that presently are subeconomic. Further exploration work and/or changes in technology or economics could result in upgrading areas classified MRZ-2b to MRZ-2a.
- MRZ-3a: Areas containing known mineral occurrences of undetermined mineral resource significance. Further exploration work within these areas could result in the reclassification of specific localities into MRZ-2a or MRZ-2b categories.
- MRZ-3b: Areas containing inferred mineral occurrences of undetermined mineral resource significance. Land classified MRZ-3b represents areas in geologic settings that appear to be favorable environments for the occurrence of specific mineral deposits. Further exploration work could result in the reclassification of all or part of these areas into the MRZ-3a category or specific localities into the MRZ-2a or MRZ-2b categories.
- MRZ-4: Areas of no known mineral occurrences where geologic information does not rule out either the presence or absence of significant mineral resources.*
- *The distinction between the MRZ-1 and MRZ-4 categories is important for land use considerations. It must be emphasized that MRZ-1 classification does not imply that there is little likelihood for the presence of mineral resources, but rather there is a lack of knowledge regarding mineral occurrences. Further exploration work could well result in the reclassification of land in MRZ-1 areas to MRZ-3 or MRZ-2 categories.

WILDERNESS AREAS HAVE NOT BEEN CLASSIFIED

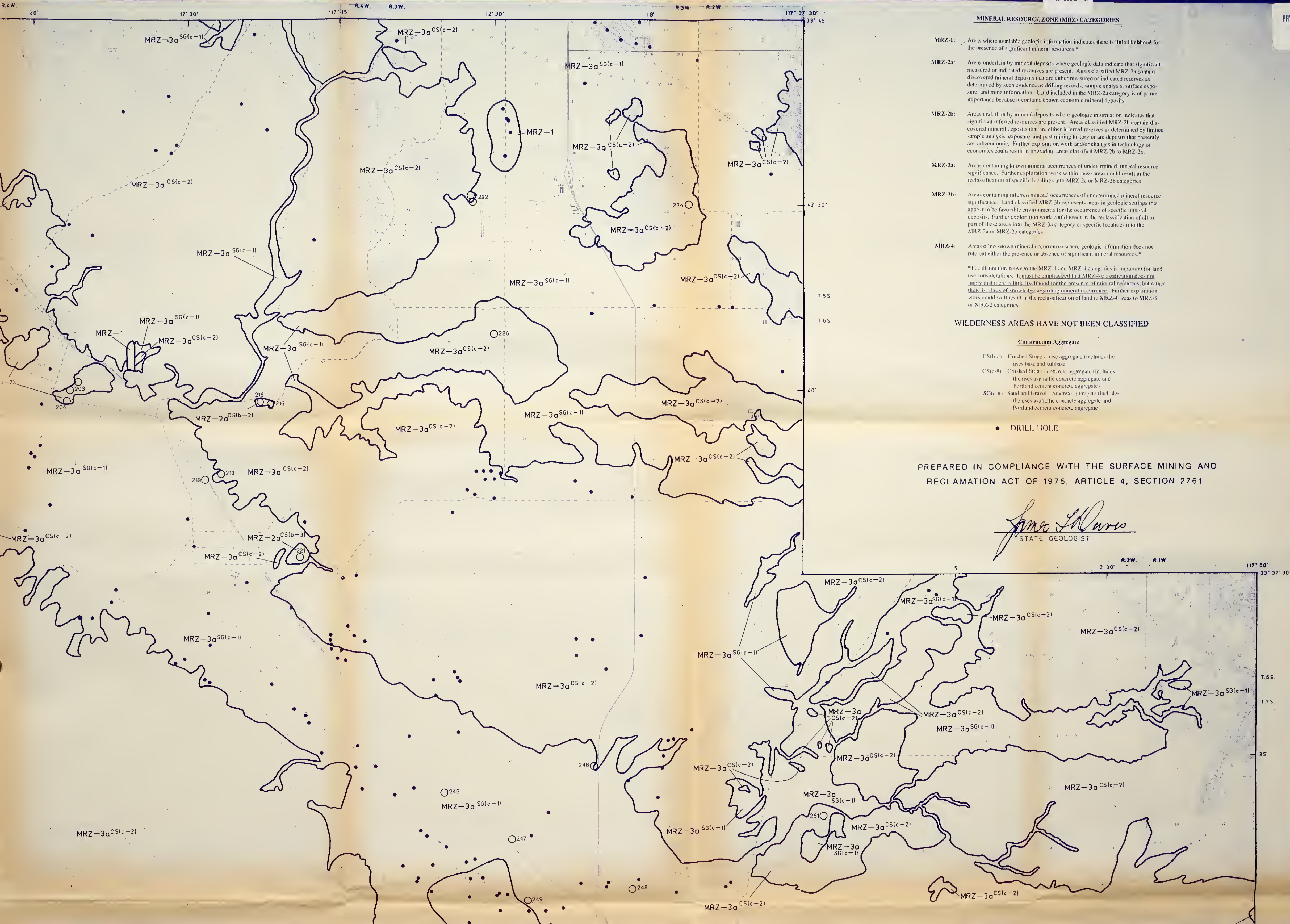
Construction Aggregate

- CS(b)-# Crushed Stone - base aggregate (includes the uses base and subbase)
- CS(c)-# Crushed Stone - concrete aggregate (includes the uses asphaltic concrete aggregate and Portland cement concrete aggregate)
- SG(c)-# Sand and Gravel - concrete aggregate (includes the uses asphaltic concrete aggregate and Portland cement concrete aggregate)

• DRILL HOLE

PREPARED IN COMPLIANCE WITH THE SURFACE MINING AND
RECLAMATION ACT OF 1975, ARTICLE 4, SECTION 2761

James H. Davis
STATE GEOLOGIST



○ CONSTRUCTION AGGREGATE MINES AND PROSPECTS
SOUTHERN AREA

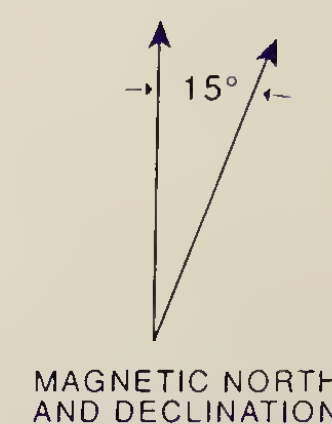
MAP NO.	NAME	COMMODITY	APPENDIX NO.
165.	Foster Sand and Gravel Pit (Werner Corporation)	Conc Agg	103
171.	Elsinore Ready Mix, Inc., McVicker Canyon Pit	Conc Agg	101
178.	Borrow Pit	Base Agg	63
203.	Borrow Pit(s)	Base Agg	64
204.	Riverside County Pit	Base Agg	83
215.	Christensen Pit	Base Agg	74
216.	Railroad Canyon Road Pit	Base Agg	79
218.	Borrow Pit	Base Agg	65
219.	Borrow Pit	Base Agg	66
221.	Bundy Canyon Road Pit	Base Agg	73
222.	Riverside County Pit(s)	Base Agg	84
224.	Riverside County Pit	Base Agg	85
226.	Borrow Pit	Base Agg	67
245.	Borrow Pit	Base Agg	68
246.	Borrow Pit	Base Agg	69
247.	Borrow Pit	Base Agg	70
248.	Unknown Name Gravel Pit	Base Agg	89
249.	Riverside County Pit	Base Agg	86
251.	Borrow Pit	Base Agg	71
252.	Borrow Pit	Base Agg	72



MINERAL LAND CLASSIFICATION MAP OF THE SOUTHERN TEMESCAL VALLEY AREA RIVERSIDE COUNTY, CALIFORNIA (AREAS CLASSIFIED FOR AGGREGATE RESOURCES)

by
Russell V. Miller

1991



SYMBOLS



Aggregate Resource Area (ARA)*.

Boundary of Aggregate Resource Area (ARA) where the boundary coincides with the boundary of a Designated Area (an area designated by the State Mining and Geology Board)**.

Boundary of Aggregate Resource Area (ARA) where the boundary does not coincide with the boundary of a Designated Area (an area designated by the State Mining and Geology Board)**.

Boundary of Designated Area (an area designated by the State Mining and Geology Board)**.



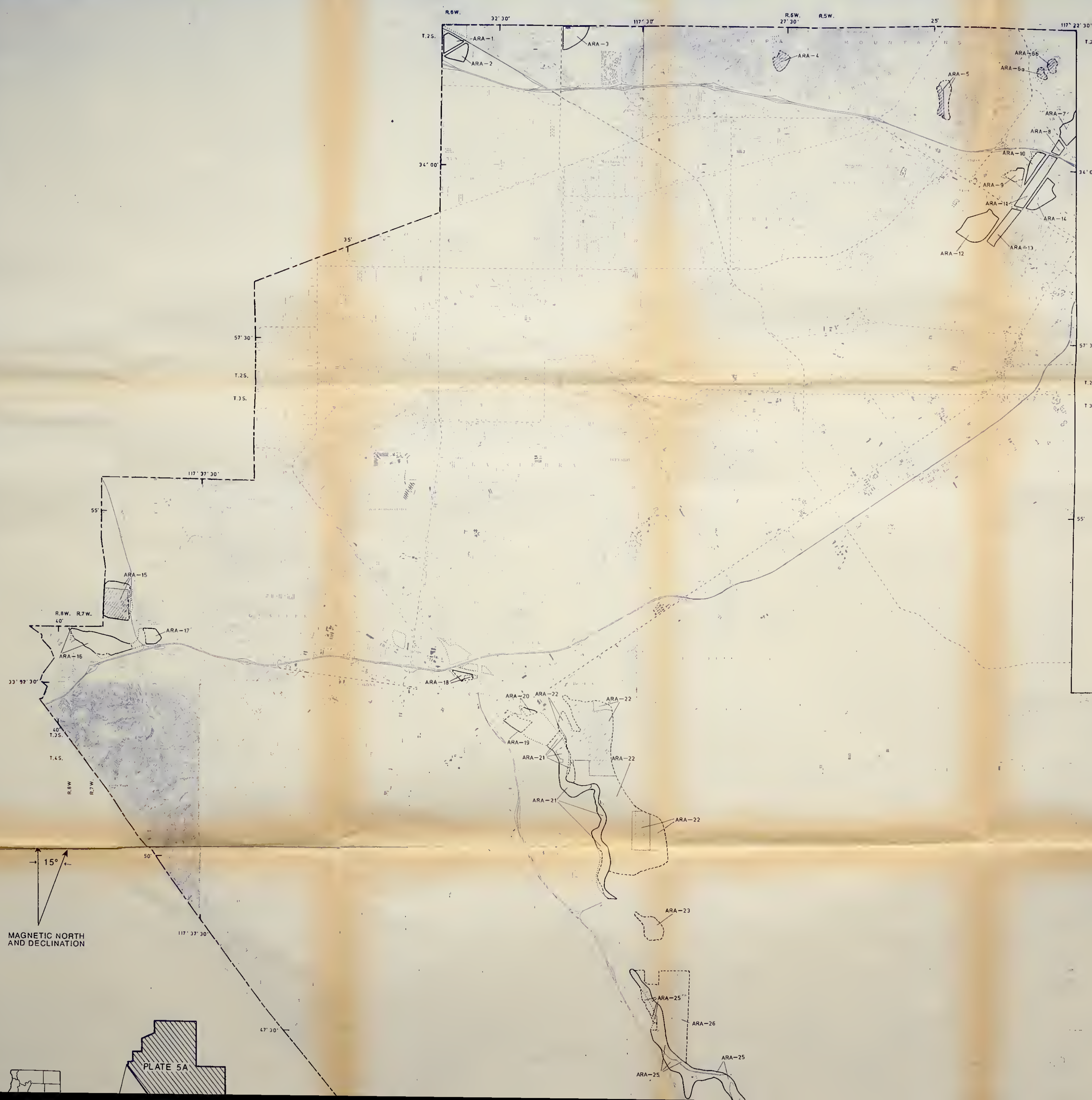
Properties owned or controlled by aggregate producers.

* See text for explanation of Aggregate Resource Area.

** See text for explanation of designation.

PREPARED IN COMPLIANCE WITH THE SURFACE MINING AND
RECLAMATION ACT OF 1975, ARTICLE 4, SECTION 2761

James F. Davis
STATE GEOLOGIST

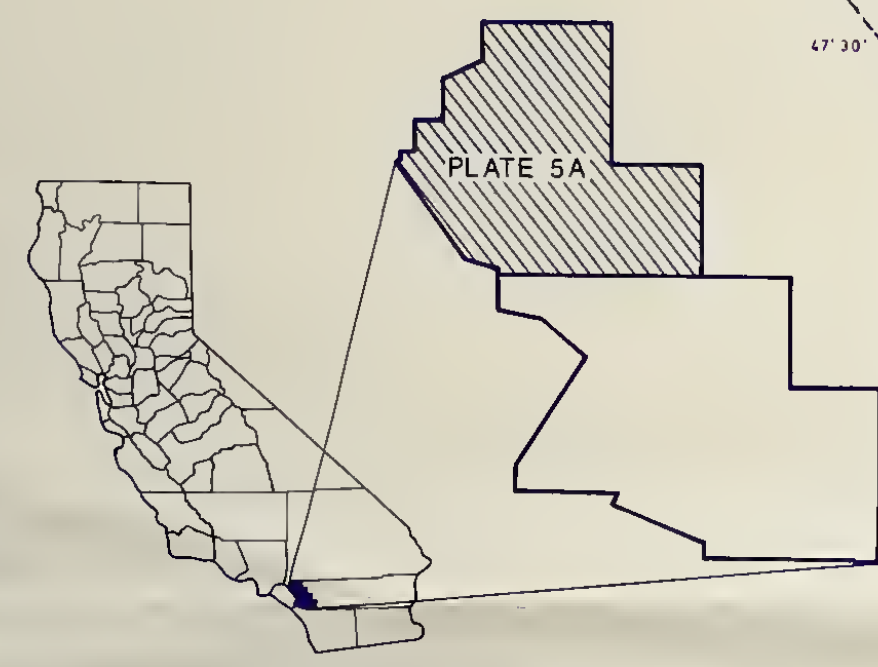


MAGNETIC NORTH
AND DECLINATION

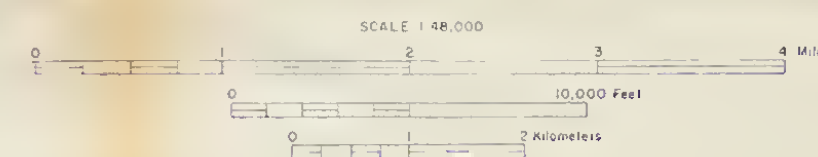
PLATE 5A

PREPARED IN COMPLIANCE WITH THE SURFACE MINING AND
RECLAMATION ACT OF 1975, ARTICLE 4, SECTION 2761

Russell V. Miller
STATE GEOLOGIST



LOCATION MAP



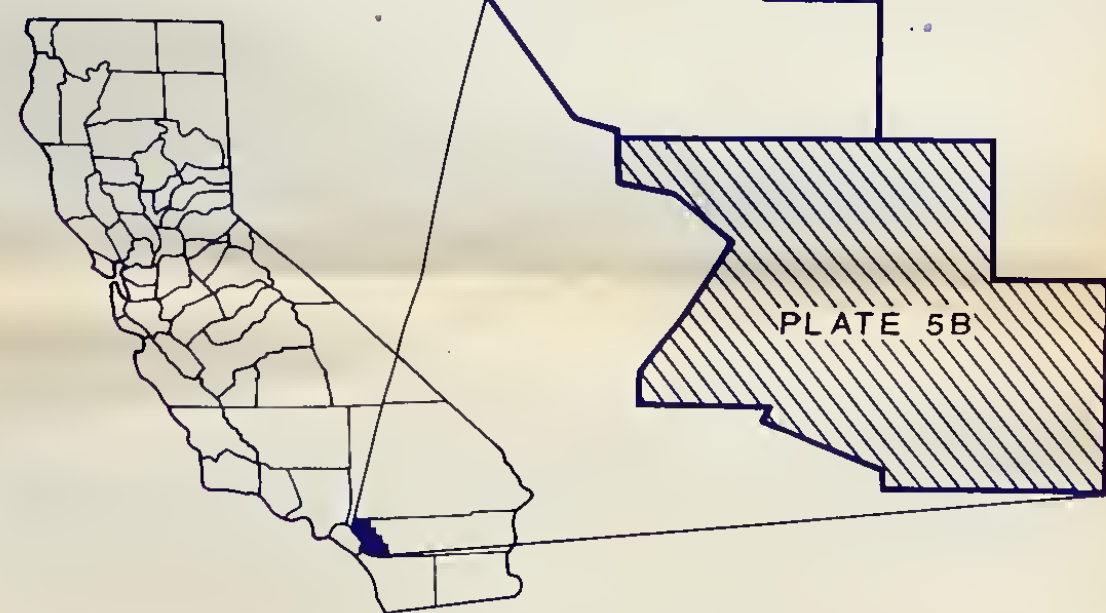
MOSAICKED FROM QUASTI, FONTANA, PRADO DAM, CORONA NORTH,
RIVERSIDE WEST, BLACK STAR CANYON, CORONA SOUTH, LAKE MATHEWS,
AND STEELE PEAK U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLES.

GRAPHICS AND DRAFTING BY CAROL ALLEN, BRUCE FOGGY, LOUISE HUCKABY,
FRANCES RUBISH, JOY SULLIVAN, PEGGY WALKER, AND JIM WILLIAMS.

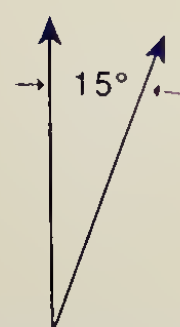
AGGREGATE RESOURCE AREAS OF THE NORTHERN TEMESCAL VALLEY AREA, RIVERSIDE COUNTY, CALIFORNIA

by
Russell V. Miller

1991



LOCATION MAP

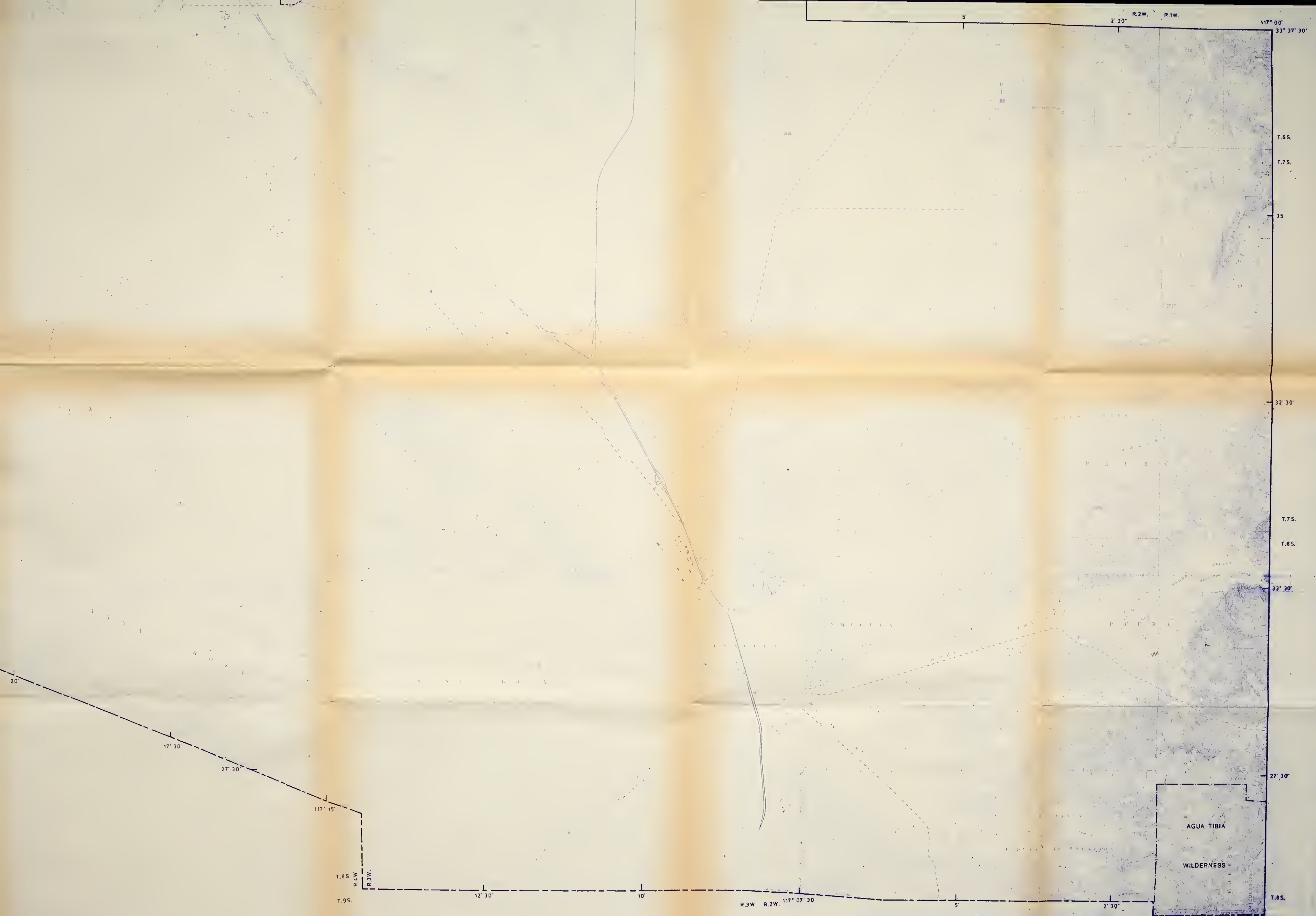


MAGNETIC NORTH
AND DECLINATION

MAGNETIC NORTH
AND DECLINATION



by
Russell V. Miller
1991



MOSAICKED FROM SANTIAGO PEAK, ALBERHILL, LAKE ELSINORE, ROMOLAND, CANADA GOVERNADORA, SITTON PEAK, WILDOMAR, MURRIETA, BACHELOR MTN, FALLBROOK, TEMECULA, AND PECHANGA U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLES.

GRAPHICS AND DRAFTING BY CAROL ALLEN, BRUCE FOGGY, LOUISE HUCKABY, FRANCES RUBISH, JOY SULLIVAN, PEGGY WALKER, AND JIM WILLIAMS.

MINERAL RESOURCE ZONE (MRZ) CATEGORIES

MRZ-2a: Areas underlain by mineral deposits where geologic data indicate that significant measured or indicated resources are present. Areas classified MRZ-2a contain discovered mineral deposits that are either measured or indicated resources as determined by such evidence as drilling records, sample analysis, surface exposure, and mine information. Land included in the MRZ-2a category is of prime importance because it contains known economic mineral deposits.

MRZ-2b: Areas underlain by mineral deposits where geologic information indicates that significant inferred resources are present. Areas classified MRZ-2b contain undiscovered mineral deposits that are either inferred resources as determined by limited sample analysis, exposure, and/or geologic information, or are deposits that are inferred to be present by such evidence as drilling records, sample analysis, surface exposure, and mine information. Areas classified MRZ-2b are of secondary importance because they contain inferred economic mineral deposits.

Industrial Minerals

CC(1-4) Clay - common
CK(1-4) Clay - kaolinite
L(1-4) Limestone
SM(1-4) Specialty Stone - roofing granules
SS(1-4) Specialty Stone - riprap
SS(1-4) Specialty Sand

Construction Materials

CS(1-4) Crushed Stone - base aggregate includes the base and subbase
CS(1-4) Crushed Stone - concrete aggregate includes the base, subbase, concrete aggregate and Portland cement concrete aggregate
SS(1-4) Sand and Gravel - concrete aggregate includes the base, subbase, concrete aggregate and Portland cement concrete aggregate

PREPARED IN COMPLIANCE WITH THE SURFACE MINING AND
RECLAMATION ACT OF 1975, ARTICLE 4, SECTION 2761

James F. Davis
STATE GEOLOGIST





MINERAL LAND CLASSIFICATION MAP OF THE NORTHERN TEMESCAL VALLEY AREA RIVERSIDE COUNTY, CALIFORNIA

(AREAS CLASSIFIED MRZ-2a AND MRZ-2b FOR ALL MINERAL DEPOSITS)

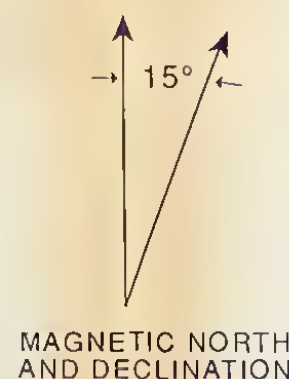
by
Russell V. Miller and Dinah O. Shumway

1991

GRAPHICS AND DRAFTING BY CAROL ALLEN, BRUCE FOGGY, LOUISE HUCKABY,
FRANCES RUBISH, JOY SULLIVAN, PEGGY WALKER, AND JIM WILLIAMS.



LOCATION MAP



MAP NO.	NAME	COMMODITY	APPENDIX NO.
164.	Santiago Peak	Au, Ag	162
165.	Poster Sand and Gravel Pit (Werner Corporation)	Conc Agg	103
166.	Oak Park Clay Prospect	Kaol Clay	27
167.	Pacific Clay Products Inc., De Guerre Mines	Kaol Clay	29
168.	Unknown Name Prospects	Au	196
169.	Alberhill Coal and Clay Company	Kaol Clay, Coal	2, 43
170.	De Guerre Mines	Kaol Clay	10
171.	Elsinore Ready Mix, Inc., McVicker Canyon Pit	Conc Agg	101
172.	Old Dominion Mine (Ortega, Acme)	Pb, Ag, Zn, As, Mn, Au	215
173.	Unknown Name	Kaol Clay	41
174.	Alberhill Shale/Clay Mine	Comm Clay	3
175.	Unknown Name Granite Quarry	Dim Stn	240
176.	Purple Hope Mine (Bob Cat No. 1)	Au	156
177.	Red Bird No. 1	Au	157
178.	Borrow Pit	Base Agg	63
179.	Holist Pit	Kaol Clay	18
180.	Golden Group (Mineral Chief)	Au	138
181.	Unknown Name Granite Quarry	Dim Stn	241
182.	Unknown Name Granite Quarry	Dim Stn	242
183.	Good Hope (Goodhope, Gold Prince, San Jacinto)	Au	139
184.	Ovens	Au	154
185.	Unknown Name Prospect	Au	197
186.	Unknown Name Slate Quarry	Slt	254
187.	Unknown Name Placers	Au	166
188.	Musick	Au	153
189.	Lucky Strike (Ophir)	Au, Ag	149
190.	Unknown Name Prospect	Sn	262
191.	Unknown Name Prospect	Au	198
192.	Beal-McClellan (Black Eagle and Newport, East Group, Elsinore, East Group and West Group)	Mn, Ag	221
193.	Unknown Name	Slt	255
194.	Unknown Name	Slt	256
195.	Morton Clay Deposit (Elsinore Clay Co.)	Kaol Clay	25
196.	Evans Shafts	Kaol Clay	13
197.	Best Ranch	Lnst	217
198.	Unknown Name Prospect	Mn?	222
199.	Unknown Name Prospect	Mn	223
200.	Wrench Silica Prospect(?)	Slt	257
201.	Wrench Prospect	Au	204
202.	Shining Star	Au, Ag	64
203.	Borrow Pit(s)	Base Agg	83
204.	Riverside County Pit	Base Agg	144
205.	Lake View Prospect	Au?	199
206.	Unknown Name Prospects	Au?, Sn?	263
207.	Unknown Name Prospect	Sn?, Au?	129
208.	Brady Prospect	Sn	260
209.	Chief of the Hills	Au	200
210.	Unknown Name Prospect	Au?	201
211.	Palisades Group	Pb, Ag, Cu, Au	216
212.	Argonaut Group	Au	125
213.	Binkley's and Tyler's Diggings	Au	127
214.	Christensen Pit	Base Agg	74
215.	Railroad Canyon Road Pit	Base Agg	79
216.	Lee Prospects	Au	145
217.	Borrow Pit	Base Agg	65
218.	Borrow Pit	Base Agg	66
219.	Hettleston	Sn	121
220.	Bundy Canyon Road Pit	Base Agg	73
221.	Riverside County Pit(s)	Base Agg	84

TN 24
C3
A33
no. 165
Plate 12



MINERAL RESOURCE ZONE (MRZ) CATEGORIES

- MRZ-2a:** Areas underlain by mineral deposits where geologic data indicate that significant measured or indicated resources are present. Areas classified MRZ-2a contain discovered mineral deposits that are either measured or indicated reserves as determined by such evidence as drilling records, sample analysis, surface exposure, and mine information. Land included in the MRZ-2a category is of prime importance because it contains known economic mineral deposits.
- MRZ-2b:** Areas underlain by mineral deposits where geologic information indicates that significant inferred resources are present. Areas classified MRZ-2b contain discovered mineral deposits that are either inferred reserves as determined by limited sample analysis, exposure, and past mining history or are deposits that presently are subeconomic. Further exploration work and/or changes in technology or economics could result in upgrading areas classified MRZ-2b to MRZ-2a.

WILDERNESS AREAS HAVE NOT BEEN CLASSIFIED

Industrial Minerals

- CC(i-#) Clay - common
CK(i-#) Clay - kaolinitic
L(i-#) Limestone
SX(i-#) Specialty Stone - roofing granules
SR(i-#) Specialty Stone - riprap
SS(i-#) Specialty Sand

Construction Aggregate

- CS(b-#) Crushed Stone - base aggregate (includes the uses base and subbase)
CS(c-#) Crushed Stone - concrete aggregate (includes the uses asphaltic concrete aggregate and Portland cement concrete aggregate)
SG(c-#) Sand and Gravel - concrete aggregate (includes the uses asphaltic concrete aggregate and Portland cement concrete aggregate)

PREPARED IN COMPLIANCE WITH THE SURFACE MINING AND
RECLAMATION ACT OF 1975, ARTICLE 4, SECTION 2761

James M. Durso
STATE GEOLOGIST



MINES AND PROSPECTS SOUTHERN AREA			
MAP NO.	NAME	COMMODITY	APPENDIX NO.
164.	Santiago Peak	Au, Ag	162
165.	Foster Sand and Gravel Pit (Werner Corporation)	Conc Agg	103
166.	Oak Park Clay Prospect	Kaol Clay	27
167.	Pacific Clay Products, Inc., Oa Guerre Mines	Kaol Clay	29
168.	Unknown Name Prospects	Au	196
169.	Alberhill Coal and Clay Company	Kaol Clay, Coal	2, 43
170.	Oa Guerre Mines	Kaol Clay	10
171.	Elsinore Ready Mix, Inc., McVicker Canyon Pit	Conc Agg	101
172.	Old Dominion Mine (Ortega, Acme)	Pb, Ag, Zn, As, Mn, Au	215
173.	Unknown Name Clay Prospect	Kaol Clay	41
174.	Alberhill Shale/Clay Mine	Conc Clay	3
175.	Unknown Name Granite Quarry	Old Stn	240
176.	Purple Hope Mine (Bob Cat No. 1)	Au	156
177.	Red Bird No. 1	Au	157
178.	Borrow Pit	Base Agg	63
179.	Moist Pit	Kaol Clay	18
180.	Golton Group (Mineral Chief)	Au	138
181.	Unknown Name Granite Quarry	Dim Stn	241
182.	Unknown Name Granite Quarry	Dim Stn	242
183.	Good Hope (Goodhope, Gold Prince, San Jacinto)	Au	139
184.	Owens	Au	154
185.	Unknown Name Prospect	Au	197
186.	Unknown Name Slate Quarry	Slt	254
187.	Unknown Name Placers	Au	166
188.	Musick	Au	153
189.	Lucky Strike (Ophir)	Au, Ag	149
190.	Unknown Name Prospect	Sn	262
191.	Unknown Name Prospect	Au	198
192.	Beal-McClellan (Black Eagle and Newport, Brus and Newport, East Group, Elsinore East Group and West Group)	Mn, Ag	221
193.	Unknown Name	Slt	255
194.	Unknown Name	Slt	256
195.	Horton Clay Deposit (Elsinore Clay Co.)	Kaol Clay	25
196.	Evans Shaft	Kaol Clay	13
197.	Best Ranch	Lat	217
198.	Unknown Name Prospect	Mn?	222
199.	Unknown Name Prospect	Mn	212
200.	Wrench Slate Prospect(?)	Slt	257
201.	Wrench Prospect	Au	204
202.	Shining Star	Au, Ag	1
203.	Borrow Pit(s)	Base Agg	64
204.	Riverside County Pit	Base Agg	83
205.	Lake View Prospect	Au	144
206.	Unknown Name Prospects	Au?, Sn?	199
207.	Unknown Name Prospect	Sn?, Au?	263
208.	Brady Prospect	Au	129
209.	Chief of the Mills	Sn	260
210.	Unknown Name Prospect	Au	200
211.	Unknown Name Prospect	Au?	201
212.	Palladas Group	Pb, Ag, Cu, Au	216
213.	Argonaut Group	Au	125
214.	Binkley's and Tyler's Diggings	Au	127
215.	Christensen Pit	Base Agg	74
216.	Railroad Canyon Road Pit	Base Agg	79
217.	Lae Prospects	Au	145
218.	Borrow Pit	Base Agg	65
219.	Borrow Pit	Base Agg	66
220.	Hattleton	Si	121
221.	Bundy Canyon Road Pit	Base Agg	73
222.	Riverside County Pit(s)	Base Agg	84
223.	Roseland Group	Au	158
224.	Riverside County Pit	Base Agg	85
225.	Twin Buttes No. 1	Au	165
226.	Borrow Pit	Base Agg	67
227.	Menifee Mine	Au, Ag	151
228.	Mammoth Group	Au	150
229.	Lucky Boy (Walker)	Au	148
230.	Bundy-Murrieta Deposit	Feld	119
231.	Parris Mining Co. Deposit (Blom Mine)	Feld	122
232.	Leon	Au, Ag	146
233.	Alice	Au	124
234.	Yvonne (Lucas Canyon Claims)	Au	205
235.	Blue Goose	Au, Ag	128
236.	Beehive	Cu, Au	114
237.	Silver Shine	Cu	117
238.	Mammoth	Fe	212
239.	Sievert Clay Prospect	Kaol Clay	31
240.	Elsinore Peak	Au	134
241.	Electric Copper and Gold	Cu, Au, Ag	116
242.	Unknown Name Prospect	Au	202
243.	California Land and Mineral Co. (American Encrusting Tiling Co.)	Feld, Si	120
244.	Wildomar Kaolin Deposit	Kaol Clay	42
245.	Borrow Pit	Base Agg	68
246.	Borrow Pit	Base Agg	69
247.	Borrow Pit	Base Agg	70
248.	Unknown Name Gravel Pit	Base Agg	89
249.	Riverside County Pit	Base Agg	86
250.	Skinner On Quarries	Riprap	250
251.	Borrow Pit	Base Agg	71
252.	Borrow Pit	Base Agg	72
253.	Tenacua Quarries	Dim Stn	237

MAGNETIC NORTH
AND DECLINATION

MINERAL LAND CLASSIFICATION MAP OF THE SOUTHERN TEMESCAL VALLEY AREA RIVERSIDE COUNTY, CALIFORNIA

(AREAS CLASSIFIED MRZ-2a AND MRZ-2b FOR ALL MINERAL DEPOSITS)

by
Russell V. Miller and Robert L. Hill

1991



James H. Lane
STATE GEOLOGIST



GRAPHICS AND DRAFTING BY CAROL ALLEN, BRUCE FOGGY, LOUISE HUCKABY,
FRANCES RUBISH, JOY SULLIVAN, PEGGY WALKER, AND JIM WILLIAMS.

TN24
C3
A33
NO. 1165
Plate 13

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JAMES F. DAVIS, STATE GEOLOGIST

STATE OF CALIFORNIA - PETE WILSON, GOVERNOR
THE RESOURCES AGENCY - DOUGLAS P. WHEELER, SECRETARY FOR RESOURCES
DEPARTMENT OF CONSERVATION - EDWARD G. HEIDIG, DIRECTOR

SPECIAL REPORT 165
PLATE 7

MINERAL LAND CLASSIFICATION OF THE TEMESCAL VALLEY AREA RIVERSIDE COUNTY, CALIFORNIA DESIGNATED AREAS LOST TO URBANIZATION

BY
R. V. MILLER
1991

SCALE 1:100,000



EXPLANATION



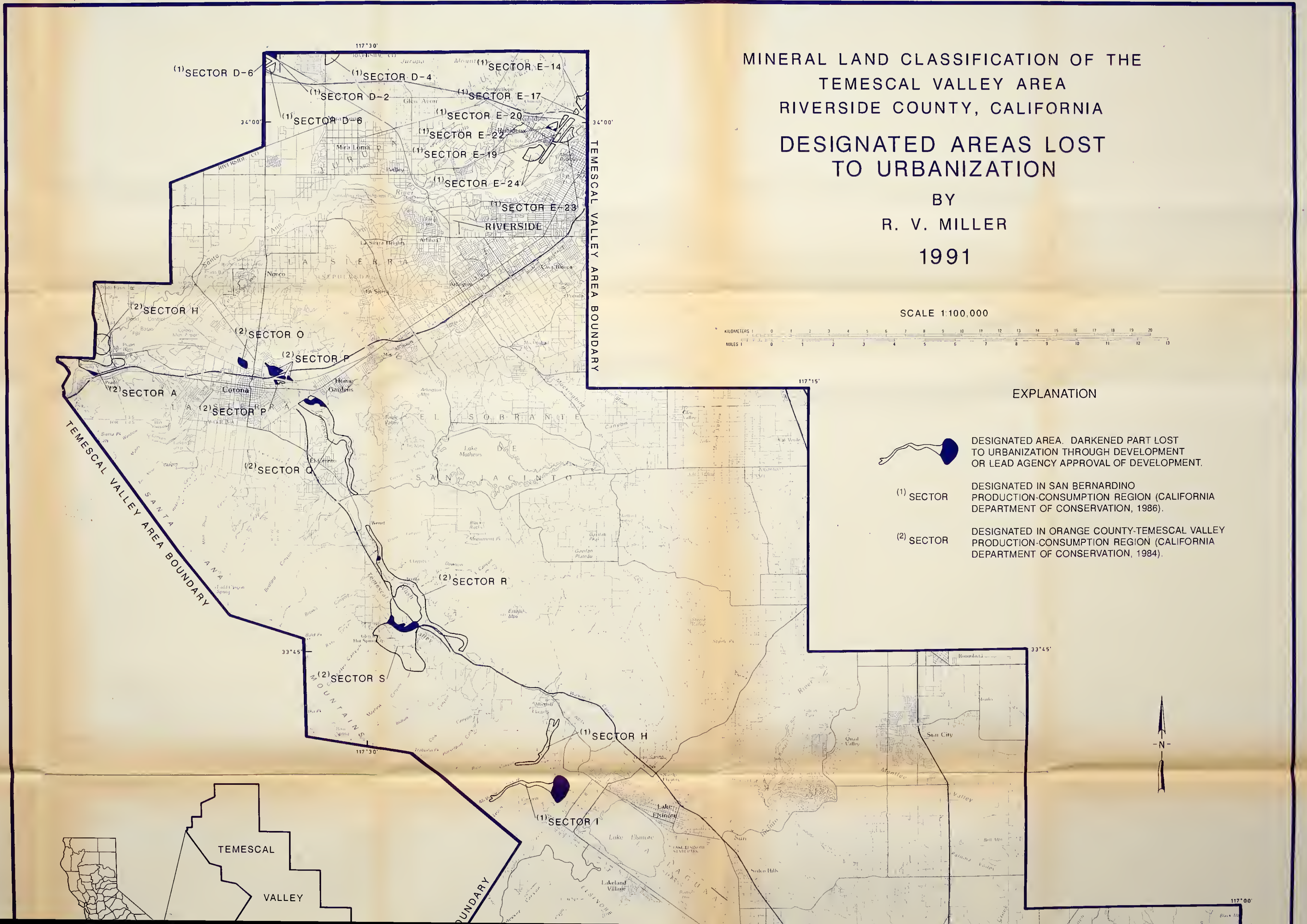
DESIGNATED AREA. DARKENED PART LOST
TO URBANIZATION THROUGH DEVELOPMENT
OR LEAD AGENCY APPROVAL OF DEVELOPMENT.

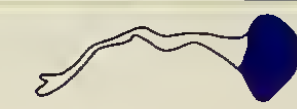
(1) SECTOR

DESIGNATED IN SAN BERNARDINO
PRODUCTION-CONSUMPTION REGION (CALIFORNIA
DEPARTMENT OF CONSERVATION, 1986).

(2) SECTOR

DESIGNATED IN ORANGE COUNTY-TEMESCAL VALLEY
PRODUCTION-CONSUMPTION REGION (CALIFORNIA
DEPARTMENT OF CONSERVATION, 1984).





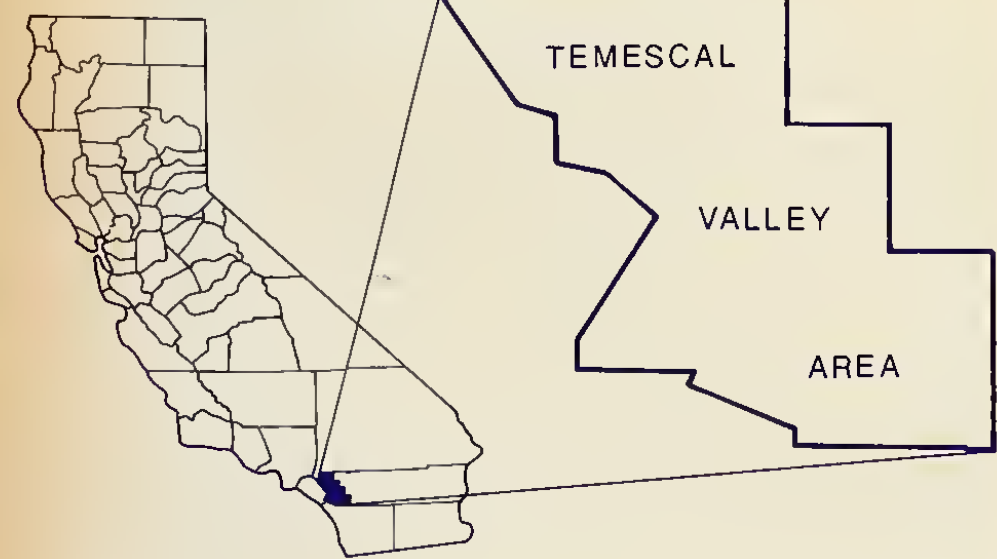
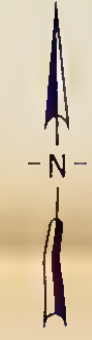
DESIGNATED AREA. DARKENED PART LOST TO URBANIZATION THROUGH DEVELOPMENT OR LEAD AGENCY APPROVAL OF DEVELOPMENT.

(1) SECTOR

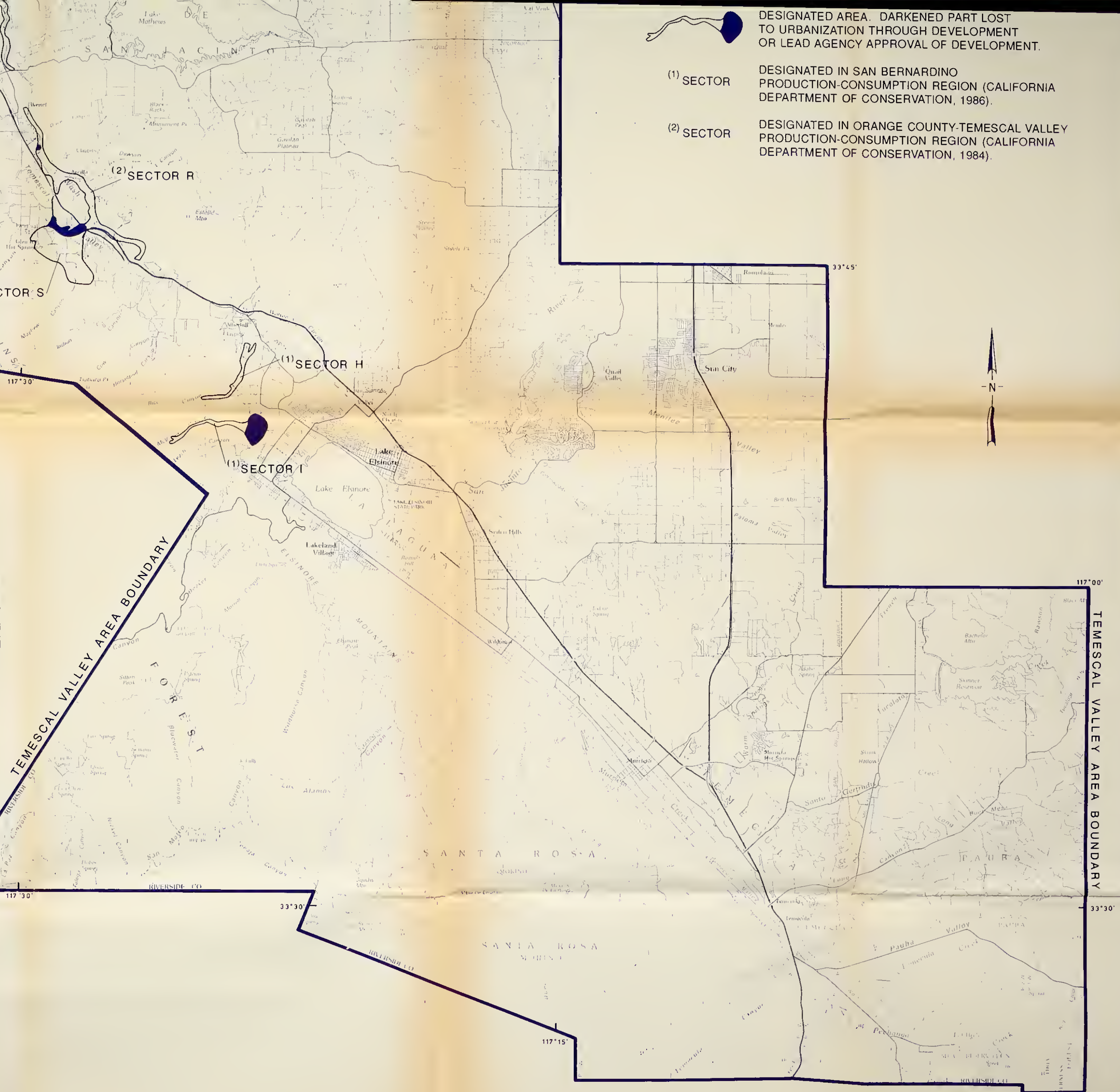
DESIGNATED IN SAN BERNARDINO PRODUCTION-CONSUMPTION REGION (CALIFORNIA DEPARTMENT OF CONSERVATION, 1986).

(2) SECTOR

DESIGNATED IN ORANGE COUNTY-TEMESCAL VALLEY PRODUCTION-CONSUMPTION REGION (CALIFORNIA DEPARTMENT OF CONSERVATION, 1984).



LOCATION MAP



MOSAICKED FROM SAN BERNARDINO, SANTA ANA, AND OCEANSIDE U.S.G.S. 1:100,000 PLANIMETRIC BASES.



COLLATE:

13 PIECES

